

The
HEMIST AND DRUGGIST
or RETAILER - WHOLESALE - MANUFACTURER

ished 1850

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

343
XLI

MARCH 4, 1944

Annual Subscription (with
Diary) 25/- Single Copies 9d.

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1180.

— R. P.

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AT 1108.

— F. T.

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AH 1263.

— E. H.

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INDEX TO ADVERTISERS

The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper should not be taken as an indication that they are necessarily available for export.

Allen & Hanburys, Ltd.	Front Cover
Aspro, Ltd.	viii
Ayrton Saunders & Co., Ltd.	vi
Bear Honey Co., Ltd.	x
Beatson, Clark & Co., Ltd.	23
Beechams Pills, Ltd.	2
Bell, John Hills & Lucas, Ltd.	Leader Page
Bio-Colloids, Ltd.	14
Boots Pure Drug Co., Ltd.	ii
Briceas, Ltd.	25
British Cod Liver Oil Producers (Hull), Ltd.	13
British Dyewood Co., Ltd.	vi
British Schering, Ltd.	ii
Burgoyne Burbidges & Co., Ltd.	i
Burroughs, James, Ltd.	Leader Page
Burroughs Wellcome & Co.	27
Bush, W. J., & Co., Ltd.	22
Calfos, Ltd.	5
Carillon Press, Ltd.	26
Chilva Laboratories, Ltd.	8
Ciba, Ltd.	28
Container Reclamation Co., Ltd.	26
Cooper Laboratory, Ltd.	10
Cox, Arthur H., & Co., Ltd.	Cover iv
Cussons, Sons & Co., Ltd.	Cover iii
Dae Health Laboratories, Ltd.	xi
Dangoor, N. S., Ltd.	vi
Daniel, Richard, & Son, Ltd.	15
Dearborn (1923), Ltd.	9

(continued overleaf)

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INDEX—(contd.)

Dublin College of Optics	Col. Supp.	Meggesson & Co., Ltd.	
Duncan, Flockhart & Co.	iv	Menley & James, Ltd.	
Economic Utilities, Ltd.	iv	Midgley & Parkinson, Ltd.	Le
Evans, Adlard & Co., Ltd.	26	New Era Treatment Co., Ltd.	
Evans Sons Lescher & Webb, Ltd.	3	Optrex, Ltd.	
Franco-British Electrical Co., Ltd.	14	Organon Laboratories, Ltd.	
Freudentheil, Smith & Co.	Leader Page	Oxo, Ltd.	
Gardenland Products	18	Parke, Davis & Co.	
Gardiner & Co. (The Scotch House), Ltd.	23	Penhaligon's, Ltd.	
Gardner, W., & Sons (Glos.), Ltd.	24	Perken, Son & Co., Ltd.	
Geigy Pharmaceutical Co., Ltd.	v	Potter & Clarke, Ltd.	
George, Ernest J., & Co.	Col. Supp.	Premo & Silks	
Graesser, N. H.	iv	Price, A. S., & Co., Ltd.	
Graesser Salicylates, Ltd.	viii	Prince Regent Tar Co., Ltd.	
Griffiths Hughes, E., Ltd.	12	Rankin Bros. & Sons	Le
Harley, T., Ltd.	18	Ransom, Wm., & Son, Ltd.	
Harman Dietetic Laboratories, Ltd.	Col. Supp.	Rendell, W. J., Ltd.	
Harrison, A., & Sons, Ltd.	5	Riddell Products, Ltd.	
Health Products Laboratories, Ltd.	x	Roberts' Patent Filling Machine Co., Ltd.	
Hickman (1928), Ltd.	23	Roche Products, Ltd.	
Hirst, Stuart, Ltd.	Leader Page	Ronaldson, J., & Co., Ltd.	
Hough, Hoseason & Co., Ltd.	iv	Scholl Manufacturing Co., Ltd.	
International Chemical Co., Ltd.	ix	Scott, A. & R., Ltd.	
International Laboratories, Ltd.	13	Scurr, C. A.	
Jeffreys, Miller & Co., Ltd.	vi	Selka, Ltd.	Le
Johnson Agencies (Proprietaries), Ltd.	26	Sessions, William	
King, J. C., Ltd.	18	Singha, The Dr., Co., Ltd.	
Landau, E.	Col. Supp.	Smith, T. & H., Ltd.	
Lang, Jules, (Optical), Ltd.	8	Smith, T. J., & Nephew, Ltd.	
Liquinure Sales	18	Sturge, John & E., Ltd.	
Lofthouse & Saltner, Ltd.	15	Surgical Hosiery Co., Ltd.	
London Pharmaceutical Laboratories, Ltd.	8	Thackray, Chas. F., Ltd.	
Martin, Bob, Ltd.	4	Thornton & Ross, Ltd.	
Matthews Laboratories, Ltd.	Leader Page	United Chemists Association, Ltd.	
Matthews, S., & Co., Ltd.	x	Whiffen & Sons, Ltd.	
		Wilcox, Jozeau & Co.	Le
		Yardley & Co., Ltd.	

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No. 32

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T.R.124



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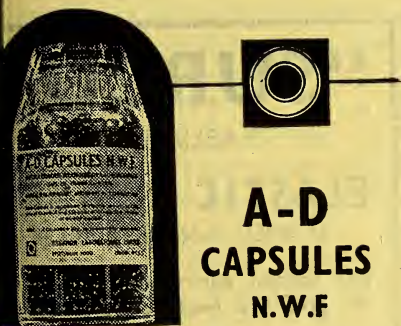


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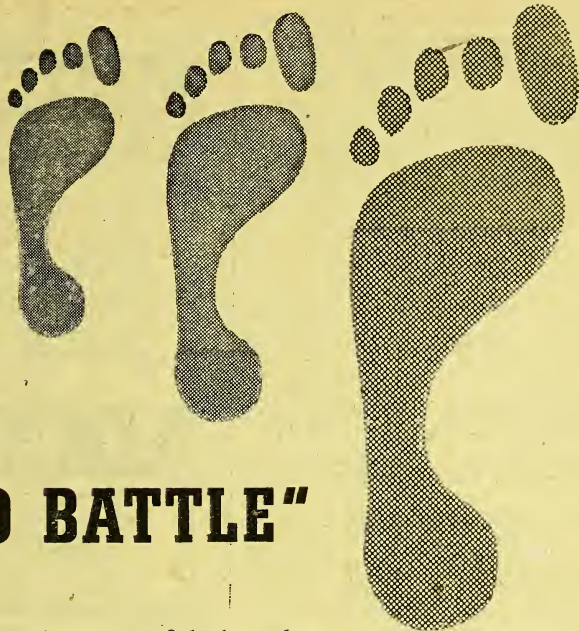
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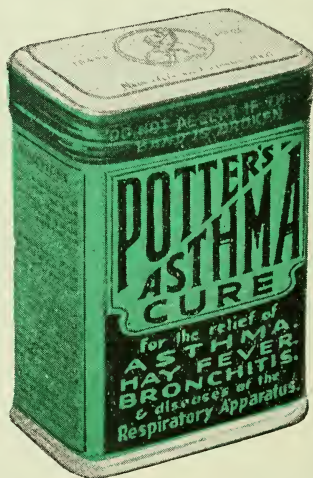
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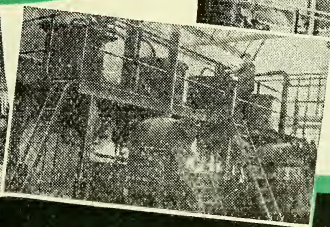
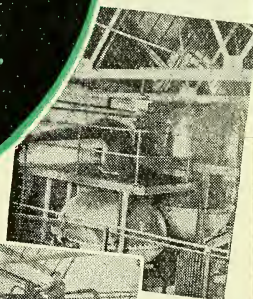
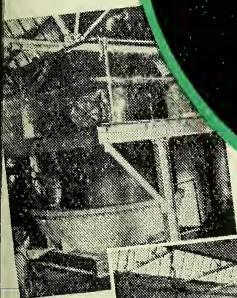
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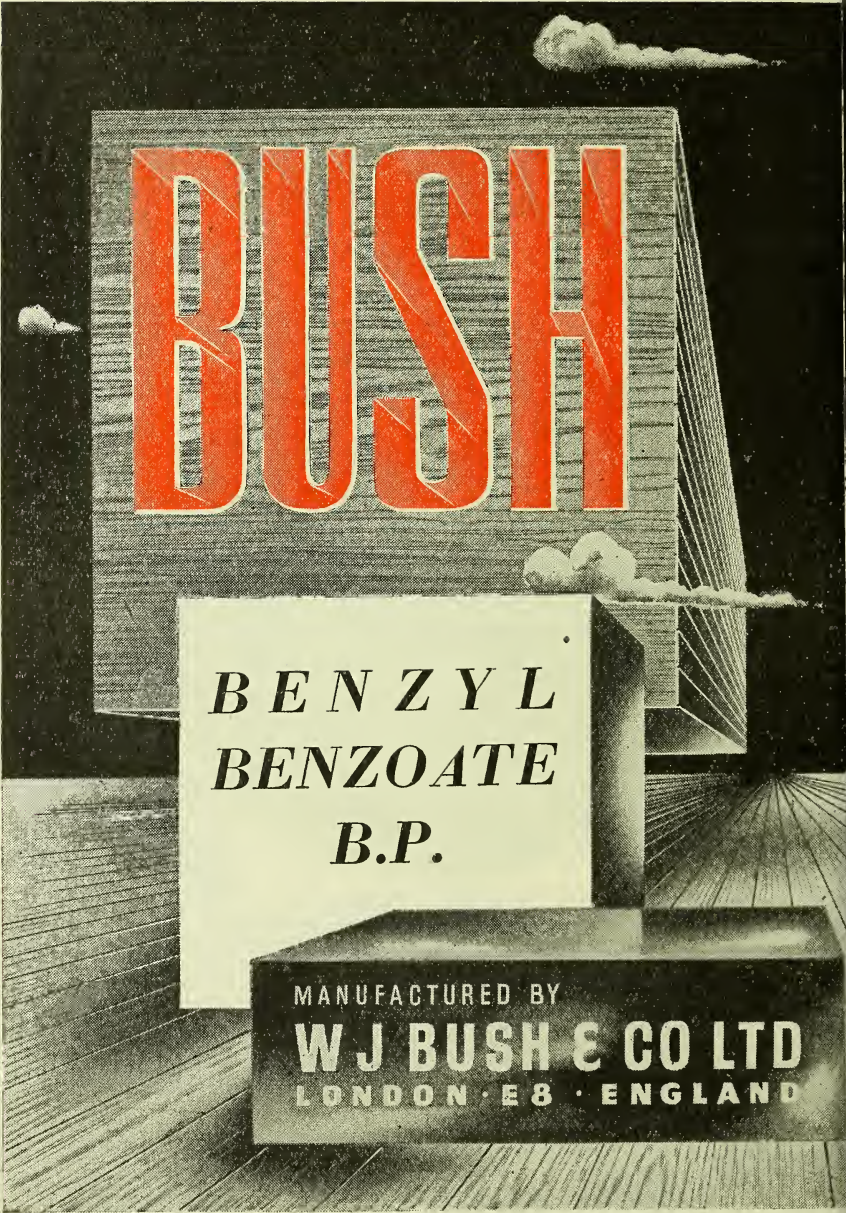
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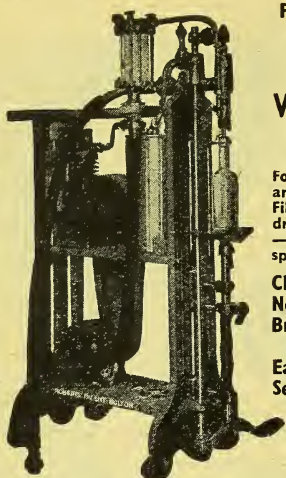
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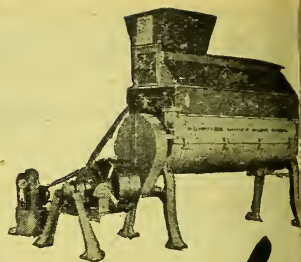
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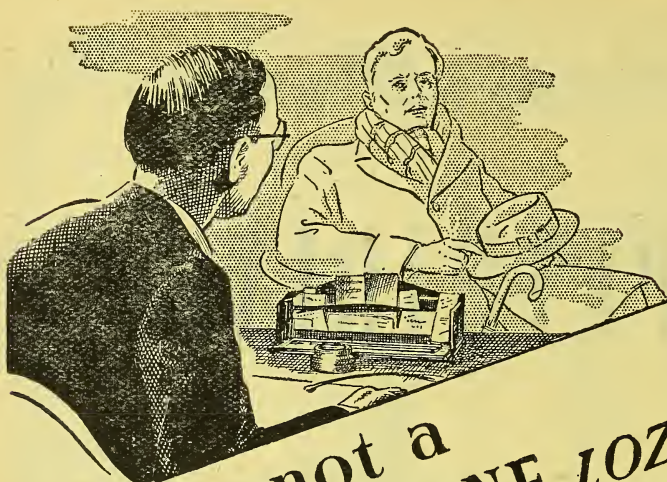
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CONTENTS

	Page		Page
Births	253	Marriages	253
"C. & D." Dispensing Price List	256	Miscellaneous Inquiries	269
"C. & D." Proprietaries Price List	265	N.P.U. Election Candidates	254
Chemists' & Druggists' Society, Ireland	255	Note on Soft Soap	264
Coming Events	270	Parliamentary News	248
Company News	251	Personalities	254
Correspondence	270	Pharmaceutical Society of Great Britain: Council Meeting	257
Deaths	253	Pharmaceutical Society of Northern Ireland: Council Meeting	255
Editorial Articles:—		Topical Reflections	249
The Case for the Pharmacist	259	Trade Marks	265
Design for World Trade	261	Trade Notes	252
Mustard Gas in Fats	261	Trade Report	266
Requests	251	Vitamin B ₂ Complex	262
British Wholesalers' Dinner	256		
Legal Reports	250		

NEWS OF THE WEEK

Double Summertime.—Double summertime for 1944 is to commence on Sunday, April 2, and continue until Sunday, August 13.

Photographic Quota Increased.—The Board of Trade has announced that the quota for photographic manufacturers, in the period February to July, has been increased from 10 per cent. to 12½ per cent.

Business Scheme Premium.—In respect of the period April 1 to September 30 the rate of premium payable under any policy issued under the Board of Trade business scheme will again be at the rate of 5s. 6d. per cent.

Benzene Tax Remission Urged.—Dr. H. W. H. Winstanley, in a speech in London recently, said it was unfortunate that motor-spirit taxation had accidentally put a tax of £10 per ton on the benzene used for making plastics, dyestuffs, pharmaceuticals, and turpentine (for making synthetic camphor). He said the tax could be removed a considerable saving would be given to a vital industry.

New Soap Order.—The Ministry of Food announces that the Soap (Maximum Retail Prices) Order, 1942, as amended, has been revoked and that its provisions have been re-enacted and consolidated in the Soap (Maximum Retail Prices and Conditions of Sale) Order, 1944, which comes into force on March 5. No changes are made in the prices of hard soap and soap flakes but new provisions make it an offence to sell soap powder at a price exceeding that marked on the container and prohibit the imposition, on the sale of soap of any kind, of conditions relating to the purchase of other articles.

Post-war Finance for Small Traders.—The president of the British Bankers' Association stated recently that the bankers' job after the war would be to put merchants and small traders on their feet again. Many who had had good businesses before the war, employing from fifty to several hundred men, would, on account of the war, have little money left. A six months' loan from the bank would be of little use.

They would need money for several years in building up their businesses again. The banks were therefore considering the practicability of making advances and allowing the small trader to pay them back by instalments over a number of years.

Wine Licence.—At Derby, recently, Frederick W. Towle, M.P.S., 3 Beaufort Street, Derby, was granted a licence for the sale of medicated wines, on the understanding that it should apply only to certain specified brands.

Nuffield Aid in Penicillin Research.—Through the Nuffield Provincial Hospitals Trust, grants of £2,300 annually for five years have been made towards the cost of research work carried out on penicillin at Oxford University under Professor H. W. Florey.

Presentation.—At a meeting held in Liverpool on February 16, students of the Liverpool School of Pharmacy presented their principal, Mr. H. Humphreys Jones, Ph.C., F.I.C., with a leather brief case and parchment scroll bearing the names of all the students at the school.

Dublin Chemists' Rugby.—The Dublin Chemists' Rugby Club faces its stiffest opposition to date when it meets a selected Dublin Hospital XV at Donnybrook on March 5. The Hospital includes many well-known international players. Supporters of the Chemists' XV are reminded that the match begins at 3.30 p.m.

Licence Application Opposed.—The Scottish Pharmaceutical Federation has sent to Glasgow Price Regulation Committee a strong objection to the granting of an application by Kinning Park Co-operative Society, Ltd., to open a new business as retailer of made-up medicines, etc., in Paisley Road West, Glasgow.

Chemists' Aid Sought in Tracing Kidnapped Baby.—In an endeavour to trace the infant daughter of Mrs. Rose Cowgill, of Cross Street, Chorlton-on-Medlock, who was taken from a perambulator which had been left outside Manchester Town Hall on February 11, chemists in the Manchester area are being asked by the police to notify them of any new customers for baby food.

N.P.U. Chairman at Hull.—Mr. T. Heseltine (chairman, National Pharmaceutical Union) discussed the question, "Whither Pharmacy?" before members of the Hull Chemists' Association and local branch of the National Pharmaceutical Union recently. After dealing with the

varied work of the Union, he referred to the formation of the Drug Trade Council, and touched on National Health Insurance terms and the position pharmacy would hold under the Beveridge plan. Mr. Heseltine expressed his confidence that the chemist would rise to all the calls made upon him in future health schemes where the necessity arose. MR. H. CLAPPISON proposed a vote of thanks, which MR. WATSON seconded.

Northumberland N.P.U. Branch.—The annual meeting of the Northumberland and Gateshead Branch of the National Pharmaceutical Union was held in Newcastle-on-Tyne on February 15, when the following appointments were made: *Chairman*, Mr. H. Thom; *Vice-chairman*, Mr. G. H. M. Graham; *Secretary*, Mr. R. A. Hudspeth. Mr. Graham was also nominated as a candidate for election to the Executive Committee of the N.P.U., in place of Mr. Forster, to whom the meeting recorded a vote of thanks for many years' service.

Manchester Public Pharmacists.—At Manchester, on February 12, a group of members of the Liverpool Branch of the Guild of Public Pharmacists joined local members in a combined meeting, at which MR. W. E. PHILLIPSON (Manchester secretary) explained the Guild's new rules and constitution, and submitted a report upon his visit to a recent conference in London. He mentioned that the Guild was strong enough to be registered as a trade union and that such registration would enable it to apply for a position on the Joint Industrial Council. After discussion the following resolution to the Guild's annual meeting was put forward: "That the Guild register as a trade union with all possible speed." MR. LITTLEWOOD spoke on behalf of the Liverpool members.

Questions Answered at Glasgow Branch.—"Pharmacy Questions and Answers" were before a meeting of the Glasgow and South-western Scottish Branch of the Pharmaceutical Society held recently. Mr. David Gemmell (president) in the chair. Amongst the main queries were the following: Does the Branch favour a Pharmacy Commission, with powers to enforce a minimum standard of dispensary equipment? The feeling was that each pharmacy had the equipment it needed, that further equipment could be procured if dispensing warranted it, but that there was no point in small country businesses having utensils only for show.—Should a prescription with 10 per cent. or under 0

alphanilamide in ointment, dusting powder, or gauze, be on Schedule 4? The consensus of opinion was that the Society should have such items taken off Schedule 4. Is the present situation with forty candidates for seven seats on the Council satisfactory? The view was expressed that territorial representation was the correct thing.—What will be the effect on pharmacy of compulsory whole or part-time education up to the age of eighteen, with the selection of the young person's calling in the early years? This elicited a demand for higher education and better remuneration to attract first-class persons into pharmacy, Professor J.-P. Todd outlining how the educational standard should be raised.

Retailer's Viewpoint at Leicester.—A meeting of the Leicester and Leicestershire Branch of the Pharmaceutical Society was held recently, when Mr. J. C. Young (a member of Council) spoke on "A National Pharmaceutical Service from a Retailer's Point of View." Mr. A. W. Buswell presided. Mr. YOUNG said that as a retailer he did not see why there should be State dispensaries when the large number of existing pharmacies were ready to do all or nearly all the dispensing for the nation. What was needed was a better distribution

of shops, with perhaps better facilities for dispensing and certainly better remuneration for services rendered. In subsequent discussion, the suggestions were made that employees should be equally represented on committees, etc., when important problems affecting the future of pharmacy are discussed; that restriction of entrants to pharmacy should be a *sine qua non* before restriction of pharmacies; that "pure" pharmacy was not possible even under State supervision. Mr. YOUNG congratulated the Branch on its contributions to the Society's Benevolent Fund.

Birmingham Analyst's Report.—During the fourth quarter of 1943 the Birmingham City analyst examined 135 samples of drugs and found seven incorrect. A sample of Friar's balsam contained only 12.9 instead of a normal 18 per cent. of solid extractive. No official standard for extractive is given in the Pharmacopœia and, owing to difficulties of supply, samples containing as low as 14.8 to 15.9 per cent. have been passed in previous years. A sample of health salts was found incorrectly labelled, the presence of 8½ per cent. of citric acid being undisclosed and the percentage of exsiccated magnesium sulphate being slightly in excess of that stated. Samples of seidlitz powders were found 20 to 30 per cent. deficient in the white papers and 6 to 7 per cent. in excess in the blue; in another case "extra strong" powders were supplied in error. No prosecutions followed, but the dealers were cautioned.

Council Spokesman at Oxford.—Mr. F. C. Wilson (a member of the Pharmaceutical Society's Council) addressed the Oxfordshire Branch of the Society recently. He feared that the Society, in the forthcoming Council election, might become a battleground for sectional interests. He drew attention to many changes in the personnel of the Council during recent years, and deprecated change for the sake of change. He said it was a matter of extreme regret to him that, after many months of hard work in the preparation of a closely-reasoned memorandum on the Pharmaceutical Service in the Army, the Society should have received a rebuff such as had been given by the Army Council. He felt sure that the Council would have the support of the whole of pharmacy in any action it might take to bring about the changes in the Army which were so necessary. He concluded with a brief account of the steps taken to place pharmacy's views before the Minister of Health.



W. Churchill inspects x-ray apparatus prior to its dispatch to Russia recently under a Red Cross scheme

PARLIAMENTARY NEWS

Alleged Cure for Hæmophilia.—The Minister of Health stated on February 24 that he had no information about a new cure claimed for hæmophilia other than that given by Budapest radio and reported in the Press. Internal evidence suggested that the information was either false or inaccurate.

White Paper on Scientific Research.—Mr. Attlee (Lord President of the Council) stated on February 24 that he would consider issuing a White Paper setting out the present organisation for all branches of scientific research in Great Britain, and showing the respective responsibilities of his own and other Departments.

Exchange of Scientific Information.—It was stated on February 23 that among items of information now being communicated to the Soviet authorities was the present state of research into clinical uses of penicillin. The question of further contact for the purpose of exchanging scientific information between Great Britain and the Soviet Union was being pursued.

"Home-made" Penicillin.—Major Lyons asked the Minister of Health on February 17 if his attention had been called to the production and use of home-made penicillin, and whether he would consider co-operating with those responsible for intimating their case-notes on the topic. Mr. Willink, in reply, said he was advised that the small-scale production of this substance was attended by special difficulties of purification and standardisation. He would be glad to receive all information relative to the production and application of penicillin.

Supply of Combs.—Mr. A. Edwards asked the President of the Board of Trade on February 18 the range of controlled prices of combs and when price control was introduced. Mr. Dalton replied that maximum retail prices of combs, inclusive of purchase tax, ranged from 5d. to 3s. 6d., depending on size and quality. The Order fixing these prices came into force on November 1, 1943. In reply to a further question regarding shortage of combs, Mr. Dalton said that as many combs were being sold as before the war, and he was not aware of any general shortage.

West African Palm Oil.—Mr. Wootton-Davies asked the Minister of Food, on February 9, what were the average prices of West African palm oil to the consumer in June 1939 and December 1943. Colonel

Llewellyn replied that the figures were £12 10s. and £42 5s. per ton respectively. Further asked to explain how this increase of some 350 per cent. took place, what extra the native in West Africa was getting and whether the Ministry was making any profit on the material, Colonel Llewellyn stated that the Ministry was now buying the material from a large number of countries and the prices were evened out so as not to cause a loss to the Exchequer.

Private Traders' Income Tax.—Mr. Lipson asked the Chancellor of the Exchequer on February 24 if he would take steps to give the private trader in business on his own account a remission of income tax liability equivalent to that allowed to employed persons under the "pay-as-you-earn" scheme. Sir J. Anderson said the discharge of tax to employees was given only where necessary to prevent overlapping payment on transfer to "pay-as-you-earn." No question of overlap arose for the private trader. Notice had been taken in the debate that persons trading on their own account felt they were being treated unjustly when denied a remission of tax liability granted to employees whose income might actually be greater in some instances than theirs.

Consumption of Vitamin Products.—The Minister of Food was asked on February 24 to give a comparison of the consumption of cod liver oil, vitamin A and D tablets, and orange juice, in Scotland and England in December 1943 and January 1944. He gave the following analyses of average weekly intakes of vitamin products expressed as percentage of potential in England and Scotland (orange juice has been omitted):—

COD LIVER OIL

	November 1943	December 1943	January 1944
England ..	27.9	25.6	30.8
Scotland ..	22.4	20.9	23.0

VITAMIN A AND D TABLETS

	November 1943	December 1943	January 1944
England ..	43.9	40.2	49.1
Scotland ..	27.3	23.9	29.7

A footnote explained that the figures for November have been included to give a more accurate picture.

TOPICAL REFLECTIONS

Health Service Suggestions

The eighty-five-page White Paper forming the subject of your editorial article on p. 229, and fully summarised on pp. 233-39, has been read by me in its entirety: mention of this fact may reassure anyone who is in search of comments not made in the present paragraphs. Experts have found not less than five different "hands" in the manuscript of the play "Sir Thomas More." Without attempting so erudite an analysis, one can recognise three types of author in the A National Health Service," each representing a separate school of thought. The first type is obsessed by the framework of whatever scheme may come into being; it is of opinion that any scheme must be solidly based on bureaucracy, and must be complete in every detail. Such phrases as "this implies some degree of regulation" and "it will be the duty of" are frequent. The second type is overflowing with delight at the benefits envisaged; it sees a new heaven and a new earth arriving, so to speak, with the morning's milk. A sentence beginning at the bottom of p. 7 reads: "In short, general medical practice, consultant and specialist opinion, hospital treatment, clinic services for particular purposes, home nursing, midwifery and all other branches of health care need to be related to one another and treated as many aspects of the care of one person's health." The words I have italicised indicate the danger of being carried away by enthusiasm. The third type is more broadly human; it recognises that extensive changes can, as a rule, only come to fruition over extensive periods of time, and that experimental work may need to be continued for several years before a new system can be regarded as firmly established in popular favour.

Alternative Schemes

The third of these types will most readily commend itself to the majority of impartial students of the subject. Though an able document, the White Paper needed some kind of homogeniser to render its contents a consistent whole. The five Appendices are perhaps the most interesting part of the paper. Appendix B, giving details of previous discussions on health services, might well have been longer: the space allotted to it is meagre, the compilers having apparently overlooked the importance of an adequate historical background in a matter of this scope. It omits, for instance, a reference to the joint proposals submitted to the

Minister of Health last year by certain organisations representing and associated with pharmacy. Among the useful features of the Paper is the section in Appendix A (pp. 66-67) dealing with existing industrial medical services. There will no doubt be further opportunities of discussing the aspect of the scheme that particularly interests us, the supply of medicines and appliances. Meanwhile it is not too early to call attention to the contrast between the elaborate, if tentative, organisation proposed for a medical service and the nebulous references to a pharmaceutical service. It is difficult to escape the conclusion that some overlapping is likely to occur in the arrangements for a medical service, comprising as they do a Central Health Services Council, a Central Medical Board, Local Health Services Councils, and the activities of joint authorities (not honoured with initial capitals) formed by the union of county councils with county borough councils. Nor is it clear to me what relation between Health Centres and clinics is contemplated.

A Brighton Report

The appearance of the second report of the Brighton 1942 Committee (p. 223) in the same week as that of the Government White Paper may have the result of lessening the appeal the report would otherwise make. This document is entirely pharmaceutical in content, and merits attention accordingly. The second of the alternative plans outlined in it is in a sense a counterpart of the health scheme of the British Medical Association referred to on previous occasions in your columns. The first plan "is concerned solely with the supply of medicines for domiciliary treatment." Two points in it call for comment. One is the proviso that pharmacies should be so equipped that pharmacists "could undertake all additional dispensing." If, in the immediate future, the prescribing of the average medical practitioner is to be limited to ampoules administered by himself, there will not be much additional dispensing for anyone to do. If, again, prescribing is to be chiefly concerned with substances that can only be made on a large scale, dispensing will become, at any rate for a time, little more than a matter of keeping records. The other point in the plan is the claim that all dispensing should be done by pharmacists. That strikes me as a sound proposition.

Xrayser

LEGAL REPORTS

Non-existent Cosmetics.—At Bristol Assizes, on February 22, Harry Bernstein, Ardwick Road, London, N.W.3, was sentenced to four years' penal servitude for conspiracy and fraudulent deals in non-existent cosmetics and other goods, including obtaining £426 by false pretences from shopkeepers at Worcester and Trowbridge. Accused pretended to be an agent for Max Factor cosmetics, and obtained open cheques for goods he was not in a position to supply. R. E. Jones, St. George, Bristol, was found guilty with Bernstein and sentenced to fifteen months' imprisonment.

Alleged Misleading Description.—At Manchester police court, recently, J. Nichols & Co., Ltd., manufacturing chemists, Britannic Works, Manchester, were summoned for publishing a label describing a preparation as a "Strong Female Mixture," the description being calculated to lead to its use for a purpose unlawful under the Pharmacy and Medicines Act, 1941. Defence claimed that the label had been used for more than thirty years without complaint; the preparation represented an infinitesimal part of the firm's business, and was being discontinued. A penalty of £5, with £7 7s. costs, was imposed.

Unauthorised Hair-grip Manufacture.—At Manchester city police court, on February 11, Thomas Blair Talbot, Moss Side, was sentenced to twelve months' imprisonment and fined a total of £150 for five purchase-tax offences. The charges were: Failing to apply to the Customs and Excise for registration; hindering an investigation officer in the performance of his duty; failing to keep a full and true account of chargeable goods; making a statement he knew to be false; and failing to furnish a return of purchase tax payable. It was alleged that on Blair's own estimate of manufacturing six gross of hair grips daily, which was a considerable understatement, his sales from the middle of November 1943 to the end of February 1944 would amount to £560.

Downfall Attributed to Drug-taking.—At Blackpool, on February 17, James Critchley Mawer, M.P.S., Somerset Avenue, was sentenced to six months' imprisonment for stealing £25 from a local woman by what was described as "a mean sort of trick." It was alleged that the woman received a telegram purporting to come from her husband in the Royal Air Force, asking her to send £25 as he was being considered for

a commission; she sent the money and a wire came for a further £25. Upon inquiry she found that her husband had not sent any telegrams. Accused appeared in Merchant Seaman's uniform, but it was stated that he had been in business as a chemist until November 1943. He attributed his downfall to taking a drug. The prison doctor described him as fundamentally a man of weak character who was suffering from feelings of inferiority. He commenced to take benzedrine, and under its influence experienced a feeling of well-being and efficiency, which led him to extravagance, that finally caused his ruin. A firm of chemists had now offered to employ him.

Conspiracy and Fraud Charges.—After a lengthy trial, Bertram Douglas Edwards (described as chairman of Tampax, Ltd.), Redcliffe, The Park, Nottingham, and William Christian Wellis (managing director), Clivedene Mead, Maidenhead, Berks, were each sentenced to eighteen months' imprisonment at the Old Bailey, London, on February 22, after being convicted of conspiracy to defraud Tampax, Ltd., Bellevue Road, Northolt, Middlesex, and of fraudulent conversion. Both defendants were ordered to pay a sum not exceeding £500 towards the costs of the prosecution. Winifred Mary Pollard (a secretary), West Bridge, Nottingham, and Harry Edgar Rawlings (manager of a firm of stockbrokers), Copthall Court, London, E.C., were found not guilty and discharged. The prosecution announced that, in view of the verdict in the first indictment, fifteen further counts of conspiracy and fraudulent conversion would be left on the file. The case was that cheques for £15,000 were drawn from the Tampax company's account and credited to an account opened in the name of "Outdoor Publicity Services" by an employee of the company, who acted as nominee of Edwards. Mr. H. W. Mann (an American citizen, and president of Tampax Inc., New York, which held more than fifty per cent. of the voting rights in the English company) alleged that Outdoor Publicity Services, as a business concern, had no existence, and that its banking account was used by the defendants for their own purposes. The £15,000 paid into the account was stated to be part of a figure of £32,976, given in the company's 1941 balance sheet as having been spent in advertising. Both defendants had pleaded not guilty.

COMPANY NEWS

SNO-WYTE CHEMICAL CO., LTD (P.C.).—Capital £1,000. Manufacturers of and dealers in chemicals, drugs, etc. H. F. Snoden and W. R. Carter, directors.

GEORGE M. DAVIE (DUNDEE), LTD. (P.C.).—Capital £1,500. Manufacturing and dispensing chemists, etc. Mrs. Isabella C. Davie and Charles Cameron, M.P.S., directors. R.O.: 236 Hilltown, Dundee.

GREAVES (CHEMISTS), LTD. (P.C.).—Capital £1,800. Chemists, etc. Leslie A. Greaves, M.P.S., Isabel V. Daymond, and Margaret G. Greaves, directors. R.O.: 10 Bridge House, Barnstaple.

J. WHITFIELD & Co., LTD. (P.C.).—Capital £500. Manufacturers of and dealers in medical sundries, proprietary articles, etc. Joseph Whitfield and Margaret Whitfield, directors. R.O.: Quarry Hill Road, Atherton-on-Dearne, Rotherham.

DR. WEIL'S MEDICAL PRODUCTS, LTD. (P.C.).—Capital £1,000. Manufacturing, wholesale and retail chemists, etc. Archibald G. Fletcher, John J. Frawley, and Ene S. Fenn, directors. R.O.: 12 Westwood Road, Barnes, London, S.W.13.

COMPANIES DISSOLVED.—"The London Gazette," February 1, notifies that Grove Laboratories Pharmacy, Ltd., and N.D.K. Laboratories, Ltd., have been struck off the Register of Companies.

BOOTS PURE DRUG CO., LTD.—The directors have declared a further dividend of 10 per cent. on the ordinary shares for the year ending March 31, bringing the total dividend to date up to 20 per cent.

SOUTHALLS (BIRMINGHAM), LTD.—Directors' report and accounts for year ended December 31, 1943, show that the balance after trading, after providing for excess profits tax, amounted to £176,911, which, with income from investments (£15,994) and balance brought forward from previous year, make a total of £216,943. After deducting directors' fees (£700); provision for income tax (£95,563); allocation to pension fund (£20,000); provision for war contingencies (£13,271), and an interim dividend of 7½ per cent., already paid (£17,550), a balance of £69,859 remains, out of which the directors recommend a final dividend of 12½ per cent., less income tax, leaving £40,609 to be carried forward. Mr. Arthur L. Belfield, who retires from the board by rotation, offers himself for re-election.

INQUESTS

Aspirin Overdose.—"Death from misadventure through taking an overdose of aspirins" was the verdict returned by the Norwich coroner on Ethel Hicks, 23 St. Martin's Close, Norwich, on February 7.

Disinfectant.—At Southport, on February 10, a verdict of suicide while the state of mind was disturbed was returned on Harry Rostron, King Street, Southport, who died as a result of swallowing disinfectant.

Cyanide.—At Stroud, on February 14, a verdict of suicide while the balance of his mind was disturbed was returned by the deputy coroner on Mr. Reginald Russell Smith (coroner) who died as a result of drinking potassium cyanide solution.

Drank Spirits of Salt.—A verdict that he died from shock, after swallowing spirits of salt, self-administered while the balance of his mind was disturbed, was recorded at an inquest at Arlesey, Beds, on George Thomas Cockel, Baldock, recently.

Excessive Use of Drugs.—A verdict of "Death from excessive use of drugs" was recorded at St. Pancras, London, on February 11, on Dr. Johannes Lothar, who was found dead in his house with a tumbler, spoon and bottles of Medinal close by. The coroner expressed the opinion that deceased had not intended to take his own life.

Morphine to Relieve Pain.—A verdict of death by misadventure was returned at Banbury, recently, on Mr. W. A. Bull, a veterinary surgeon, who died as a result of morphine poisoning. The coroner said the evidence seemed to show that deceased had used the morphine to relieve pain and not with the intention of taking his life.

Chemical Foreman's Staircase Fall.—At Blackburn recently, a verdict of accidental death was returned on James Goulden, Stanley Street, Oswaldtwistle, a foreman to W. Blythe & Co., manufacturing chemists, Church, who was found unconscious at the foot of a flight of stairs at the works and died in Blackburn Royal Infirmary on February 7.

Demonstration by Excitable Woman.—A verdict of suicide was returned at Birmingham, recently, on Mrs. May Winifred Gibson, who died after drinking hair oil. The coroner stated: "I have no doubt that this was not a deliberate suicide in the ordinary sense, but rather a demonstration by an excitable woman, who wished to excite sympathy and bring her husband to a better frame of mind."

TRADE NOTES

Iron Tonic.—Cheritone, a new iron tonic cup with quassia, attractively flavoured, is marketed by the Cheritone Co., 149 Farringdon Road, London, E.C.1. Regional advertising is appearing.

Again Available.—The makers of Collins healing antiseptic (D. R. Collins, Ltd., 52 Brooks Mews, Davies Street, London, W.1) report that limited quantities of this product will again be available to chemists after April 1.

Reintroduced.—Roche Products, Ltd., Welwyn Garden City, Herts, announce that supplies of Citrol-Thiocol sedative and expectorant are again available in moderate quantity after a suspension of manufacture for several months. No change in the pre-war formula has been found necessary.

Preserving Stockings.—Pern, a new preparation to prevent laddering, improve silk, rayon and lisle stockings, and preserve other fabrics, is being distributed by Johnson Agencies (Proprietaries), Ltd., Clarendon Works, Clarendon Road, Croydon, Surrey. An advertisement is given elsewhere in this issue.

Orders Temporarily Not Accepted.—Episeps, Ltd., Leeds Road, Bradford, notify chemists that they are unable to accept orders for Episeps germicidal throat tablets until further notice, owing to the recent heavy influx of orders, which will take some weeks to execute. Small quantities may be had from certain of the trade wholesalers.

Liquid Fertiliser.—With the coming of a new horticultural season, Press advertising is being put out for Liquinure liquid manure, and chemists who have a demand for this item are recommended to place orders with their usual wholesalers without delay. The speciality is marketed by Liquinure Sales, 27 Burnt Oak, Broadway, Edgware, Middlesex.

Price List.—The British Drug Houses, Ltd., London, N.1, have issued a new edition of their general trade price list, and copies may be had on application, price one penny. The list has been expanded to include a range of pills, tablets, capsules, etc., and is the only price list now issued to pharmacists by the company, the previous separate list for pills and tablets having been discontinued.

Revised Pethidine Dosage.—A combined announcement in this issue by Abbott Laboratories (England), Ltd., Perivale,

Middlesex; Boots Pure Drug Co., Ltd. Nottingham; Burroughs Wellcome & Co. London; Imperial Chemical (Pharmaceuticals), Ltd., Manchester; and Roche Products, Ltd., Welwyn Garden City states that, in view of recent indication that the minimum effective dosage of pethidine hydrochloride is higher than was previously supposed, a new pack, comprising ampoules containing 100 mgm. in 2 c.c. has been introduced. They are for intravenous, intramuscular or subcutaneous injection, and are being supplied in addition to the existing strength of 50 mgm. Details of other packings are given.

Home Fruit-preserving.—A "three-point

pack for easy home fruit-preserving has been introduced by Gardenland Products, 114-16 High Street, Sevenoaks. It offers the public the advantages of the Campden (sulphur dioxide) method in quick, practicable and economical form. The metal closures used are entirely protected with an adhesive wax, specially prepared to the makers' own formula prior to fitting a wax cartridge disc. Slight heating of the closure on to a jam jar (e.g. with a warm flat-iron) completes a water-proof and gasproof seal. Details of packings and terms may be obtained from the makers.



Business Changes

A. WANDER, LTD., request that all correspondence for the company should be addressed to King's Langley, Herts.

MR. R. L. AUSTIN, M.P.S.I., has taken over the pharmaceutical business of Mr. M. B. Widdess, 55 Roche's Street, Limerick.

MR. EDMUND BUCKLEY, Ph.C., has opened a pharmacy at 37 Upper Castle Street, Tralee, Eire.

MR. M. W. GARRETT (formerly with Splendor, Ltd., Nottingham) has joined Tampax, Ltd., Northolt, Middlesex, as sales manager.

Proprietary Articles Trade Association

Alterations to Protected List.—Stemco, Ltd., increased prices, March 1: Flit hand sprayers 2s. 6d., 21s. 9d. doz. (exempt from tax).

BIRTHS

BASTOW.—At Chichester, on February 10, Phyllis, the wife of Mr. Sidney William Bastow, Ph.C., 9 North Street, Chichester, has a son (Andrew William).

TINDALE.—At Bloxwich maternity home, on February 10, Pattie, the wife of Mr. J. Tindale, M.P.S., superintendent chemist, Walsall District Co-operative Chemists, Ltd., of a son.

MARRIAGE

Golden Wedding.—**PARRY—LAMBERT.**—At Thornton Heath, Surrey, on March 3, 1944, Ernest J. Parry to Jessie Frances Lambert. Mr. E. J. Parry, D.Sc., F.I.C., has been a frequent contributor to THE CHEMIST AND DRUGGIST.

DEATHS

AUSTIN.—On active service, recently, Sergeant-Navigator William Stanley Austin, Ph.C., R.A.F., 1 Willoughby Avenue, Holbeck, Leeds. Mr. Austin qualified as a chemist and druggist in 1933 and as a pharmaceutical chemist two years later.

BAEKELAND.—In New York, on February 3, Dr. L. H. Baekeland. Born in Ghent, Belgium, in 1863, Dr. Baekeland graduated Ph.D. in 1884 and emigrated to the United States, where he commenced the manufacture of photographic paper under the trade mark Velox, later selling his business to the Eastman Kodak Co. He was the inventor of Bakelite, and president of the Bakelite Corporation from 1910. Among numerous honours, Dr. Baekeland received an honorary degree from the University of Edinburgh, and the Messel medal of the Society of Chemical Industry.

BARTHOLOMEW.—On active service, recently, Flying-Officer Ernest Bartholomew, M.P.S., 75 Brynamman Road, Lower Brynamman, Glam. Flying-Officer Bartholomew qualified as a chemist and druggist in 1935.

BEATTIE.—On January 11, Mr. Andrew Beattie, M.P.S., 17 Westbourne Square, Paddington, London, W.2. Mr. Beattie qualified in 1933.

BECKWITH.—On February 13, Mr. Ernest Beckwith, M.P.S., 43 Dyke Road, Brighton, aged sixty-eight.

BRODBECK.—At Gstaad, Switzerland, on February 20, Dr. Jacques Brodbeck, president of the Society of Chemical

Industry in Basle, and formerly chairman, Clayton Aniline Co., Ltd., Manchester.

MACLEISH.—At 11 Huron Road, Balham, London, S.W., on February 17, Mr. Edward MacLeish, M.P.S., aged seventy-one.

MANN.—On February 13, Miss Isabella Forson Mann, Rosebery Place, Gullane, East Lothian. Miss Mann qualified in 1921.

MAXWELL.—At 112 Upper George's Street, Dun Laoghaire, Eire, on February 12, Mr. William J. Maxwell, Ph.C. Mr. Maxwell qualified in 1911 and had been a manager for Hayes, Conyngham & Robinson, Ltd., for thirty years.

MAXWELL.—At his residence, 30 Ulverton Road, Dalkey, Eire, on February 19, Mr. Fawcett Maxwell, Ph.C. Mr. Maxwell qualified in 1901 and became the proprietor of a successful business in Castle Street, Dalkey. He was closely associated with the formation of the Dublin Drug Association nearly half a century ago.

MILLEDGE.—At his home in Ilford, Essex, on February 18, Mr. Albert Edward Milledge, aged seventy-nine. Prior to his retirement in 1931, Mr. Milledge had been with Potter & Clarke, Ltd., for fifty years, acting as laboratory manager for over half that period.

MOON.—Recently, during active service with the Eighth Army, Captain Cecil C. Moon, M.P.S., West Wing, Lansdown, Bath, aged thirty-two. Captain Moon qualified in 1932. He served his apprenticeship with his stepfather, Mr. E. G. Dickinson, M.P.S., George Street, Bath, and was serving in India as a representative of Joseph Nathan & Co. when war broke out.

PEAKE.—On February 10, Mr. George Stephen Peake, M.P.S., 14 Thorney Hill, Thorneywood Mount, Nottingham, aged thirty-three.

PLUMER.—At St. Audrey's, Church Lane, Hatfield, Herts, on February 24, Lord Plumer, chairman of the Society of Herbalists, aged fifty-four.

WAKEFIELD.—Believed dead, after being reported missing in December 1943, Flying-Officer Arthur James Wakefield, M.P.S., 18 Belmont Road, Sale, Cheshire, aged thirty-two. Flying-Officer Wakefield qualified in 1937.

WOLSTENHOLME.—On February 9, Mr. William Wolstenholme, M.P.S., Ripley, Cirencester Road, Charlton Kings, Cheltenham, aged seventy-six. Mr. Wolstenholme qualified in 1891.

PERSONALITIES

MR. NORMAN K. PHILLIPS, this year's chairman of the Bournemouth Branch of the Pharmaceutical Society, is the proprietor of the Moordown Pharmacy, Wimborne Road. Educated at Bournemouth School, he served his apprenticeship with Mr. C. D. Cumber, Bournemouth.



Mr. Norman K. Phillips

In the war of 1914-18 he served for two years in the Special Brigade (R.E. and R.A.F.). As a student at Portsmouth Municipal College he gained a bronze medal in chemistry, physics and botany. Mr. Phillips qualified in 1920, and opened on his own account in 1922. He is the present chairman of the Bournemouth Pharmaceutical War Committee and a past chairman of the local branch of the National Pharmaceutical Union.

MR. JOSEPH O'REILLY, M.P.S.I., has been appointed a member of the newly-constituted Radio Eireann Advisory Council.

MR. T. R. BOURKE, M.P.S.I., managing director of Hamilton, Long & Co., Ltd., Dublin, Eire, has been elected captain of Sutton golf club.

LIEUTENANT EWART WOOLLEY, R.N.V.R., J.P. (Cupal, Ltd., manufacturing chemists, Blackburn), has been reappointed president of Blackburn Liberal Association.

MR. NORMAN DEWEY has resigned from the secretaryship of the Thames Valley District Pharmacists' Association, being succeeded by Mr. O. L. Crossley, 106 Malden Road, New Malden, Surrey.

MR. ALEC SAMUEL JOHNSON, J.P., M.P.S., was, at the February statutory meeting, unanimously elected chairman of the Visiting Justices to H.M. Prison for South Wales and Monmouthshire. He is the first Cardiff magistrate to achieve this distinction.

MR. HUGH N. LINSTAD, secretary of the Pharmaceutical Society, contributed a letter to the "Daily Telegraph," recently, in which he pointed out that pharmacists were trained in bacteriological technique, particularly in preparing sterile material.

N.P.U. EXECUTIVE NOMINATIONS

THE following members have been nominated for the areas stated for election to the Executive Committee of the National Pharmaceutical Union. There will be one contest only, in Southern 3 Division (Devon, Cornwall, and Dorset). For the seat Messrs. F. E. Battershill, Braintree, Devon, and W. R. Maunder, Taunton, are nominated. Voting papers will be issued on March 10 and are returnable on March 21. The other nominated candidates will be automatically elected for a period of three years commencing April 1, 1944.

Electoral area	Nominations
North-western 1	* Dobson, Arthur, Blackburn
North-western 2	* Steinman, Harry, Manchester; 4
North-western 3	* Tristram, William John, Liverpool
North-eastern 1	Graham, George Hammon, Metcalf, Newcastle-on-Tyne, 2
North-eastern 2	* Heseltine, Thomas, Northampton, Yorks
North-eastern 3	* Brocklehurst, Eric Arthur, Hull
Western 1 ..	* Bryan, David Allen, Penmaenmawr
Western 2 ..	* Davies, Benjamin Pugh, Haverfordwest
Western 3 ..	* Marshall, Henry Herbert Moseley, Birmingham
Eastern 1 ..	* Hague, John, Lincoln
Eastern 2 ..	Coulson, Horace Bernard, Cambridge
Eastern 3 ..	* Stearn, Sidney John, Ipswich
Southern 1 ..	* French, John Edward, Sittingbourne, Kent
Southern 2 ..	* Atkinson, Wilfrid Webster, Southampton
Southern 3 ..	* Battershill, Frank Easton, Braintree, Devon
	Maunder, William Rex, Taunton
Metropolitan (3 members)	* Atkins, Ernest Andrew, Wandsworth, London, S.W.19
	* Hearle, Joseph, London, N.1
	* Melhuish, Andrew Ralph, London, W.1

* Denotes members of present Executive Committee.

Paper Trade Research.—The Paper Makers' Association of Great Britain and Ireland has formed a research association.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Mr. J. T. NICHOLL (president) was in the chair at the monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland, held in Belfast on February 18. Messrs. Charles Abernethy (vice-president) and James McDowell (treasurer); Dr. E. A. Acheson, Messrs. J. E. Connor, J.P., J. Cowzer, James Donaghy, James Glendinning, J. W. Gray, J.P., James Linn, Professor E. B. C. Mayrs, M.D., John McGregor, Sir Thomas McMullan, D.L., C. C. Tate, and the secretary (Mr. D. L. Kirkpatrick) were also present at the monthly meeting.

Apprenticeship Matters

THE SECRETARY read a letter from the Principal of Magherafelt technical school, thanking the Council for a grant of £25 towards the cost of classes for pharmaceutical apprentices in that area. On the motion of Mr. JAMES McDOWELL, seconded by Mr. CHARLES ABERNETHY, the Council agreed to insert an advertisement quarterly in the "Belfast Telegraph," pointing out to

members of the trade that apprentices must have the preliminary examination before starting on their apprenticeship and received the certificate qualifying them to become apprentices.

Licences for Horticultural Poisons

On the granting of licences for the sale of horticultural poisons, THE SECRETARY said he was watching the situation and opposing to the Home Ministry, at Stormont, the granting of all new licences.

MR. JAMES DONAGHY proposed, and Mr. J. W. GRAY, J.P., seconded, that the following should be appointed Examiners for the ensuing year: Drs. McCall, Still, and Lynn, Professor Emeleus, and Mr. W. E. Armour, B.Comm.Sc.

The following were elected members of the Society, on the proposal of Mr. J. MCGREGOR, seconded by Mr. H. F. MOORE: J. W. C. Dillon, Castle Street, Strabane; T. M. Glass, Brackage House, Maghera; J. Russell, Glenbrae, Ballycairn, Lisburn; G. P. Taylor, 47 Marina Park, Belfast.

CHEMISTS' AND DRUGGISTS' SOCIETY OF IRELAND

At the annual meeting of the Chemists' and Druggists' Society of Ireland, held in Belfast on February 24, Mr. Fred Storey was elected *President* for the twenty-fifth year; Messrs. F. T. Smith, J.P.; W. E. Wilson; F. Grimes, J.P., Pomeroy; and Charles Abernethy were elected *Vice-presidents*, Messrs. W. J. Gibson and James Macauley *Treasurer* and *Secretary* respectively, and Messrs. S. Nevin and H. McQuitty *Auditors*. Mr. S. NEVIN proposed the re-election of Mr. Storey who, he said, had their full confidence. Mr. F. BOYLE seconded, and Mr. F. T. SMITH supported. Mr. STOREY thanked the members for their renewed confidence. The old Chemists' and Druggists' Society was his first love, and it would be his last love. Mr. Storey was re-elected to represent the Society on the Council of the Belfast Chamber of Commerce.

Annual Reports

The report of the secretary regretted the death of Mr. Samuel Hill during the year. Membership had been maintained. The financial statement, presented by the treasurer, showed the Society to be in sound financial condition. Moving adoption of the report and financial statement, THE PRESIDENT said they had passed through another difficult and trying year. It had

been suggested that a Ministry of Health should be set up in Northern Ireland, and they heard suggestions regarding increased medical benefits and hospital treatment for all classes. This would undoubtedly affect not only pharmacists but pharmacy. They had seen in the King's speech that legislation would be introduced regarding poisons and pharmacy, and it had been stated in reply to a question in Parliament that control of the advertising of "quack" medicines would be made. He anticipated that the existing Pharmacy and Poisons Act would be completely overhauled and many changes made; possibly many clauses of the British Act would be considered. Chemists should take more interest in the farmer and plot-holder. Agriculture poisons were sure to be considered in the new legislation, and if chemists were not prepared to make themselves familiar with and handle these substances they might find this business slipping away from them. Mr. S. NEVIN, seconding, referred to the sound financial position of the Society. Mr. F. T. SMITH, as a country member, said he had listened to Mr. Storey's note of warning with interest and from personal experience agreed with him that they should be alive to the possibility of great changes.

IRISH WHOLESALERS' DINNER

THE annual dinner of the Irish Drug Association's wholesale section was held in Dublin recently, Mr. I. C. Dawson (chairman of the section) presiding over a company of almost forty. The toast of "Ireland," proposed by Mr. I. C. Dawson, having been honoured, Mr. G. C. O'NEILL proposed "The Wholesale Section, Irish Drug Association," saying he came forward with great diffidence as a retail chemist meeting the majority of his creditors. Mr. Dawson responded in verse. Continuing in prose, he said the wholesalers' interests reached to all parts of the country. He spoke of the work done by the wholesalers in supplying the hospitals and public institutions with commodities too numerous to mention and not easy to get at present. "The Ladies" was gallantly proposed by Mr. W. R. SUCH, and responded to on their behalf by Mr. JOHN FASKEN.

Pharmaceutical Organisations Represented

Proposing the toast "Our Guests," Mr. P. C. CAHILL said there were present representatives of two of the most important organisations in pharmacy: Mr. Con Cremen (president of the Pharmaceutical Society) and Mr. Lyall Smith (president of the Irish Drug Association). It was strange that some retail members of the Association resented that wholesalers and manufacturers had banded themselves together, and that the I.D.A. had taken them under its wing. That seemed to him a retrograde attitude. An industry like theirs should be organised and should have regulated rather than "jungle" competition. Instead of harming the retail section, organisation of the wholesalers had justified itself by the excellent conditions prevailing in the drug trade. Mr. CREMEN, responding, paid tribute to Mr. Dawson as the capable chairman of the wholesale section. The Pharmaceutical Society had come in for kicks occasionally, he said, which were not deserved, because it was not generally realised that the Society was tied down by statute, which limited its functions. There was one matter on which he would like to invite the co-operation of the wholesalers and manufacturers. At the Society's headquarters there was an unofficial register of recently qualified chemists looking for posts. At present there were about twenty-four names on it. He appealed to members present to use their influence to get some of these young men placed. Mr. LYALL SMITH, also responding, spoke of the close spirit of

co-operation that existed between the retail and wholesale sections.

Throughout the evening an enjoyable programme of songs was provided by Mess S. MOONEY and R. McCULLAGH, while PADDY HENRY as *compère* and humorist and AL THOMAS, also as humorist, added to the gaiety of the function. Mr. J. Cow was at the piano. "Our Musical Friend" was proposed by Mr. DAVIDSON.

C. & D. DISPENSING PRICE LIST

CHANGES in prices for February are comparatively few in number, but the gradient of change is steeper than usual. The result is an increase of 0.1 in the drug index figure, which becomes 134.7. The index for the corresponding month in 1943 was 134.2. Changes are set out below.

Cost	<i>Due allowance has been made for purchase tax in both cost and dispensing prices</i>	Dispensing price		
		4 oz.	1 oz.	1 lb.
d.	per			
39 lb.	Anisi fructus pulvis	s. d.	s. d.	s.
24 oz.	Balsamum toluatanum	1 5	0 6	0
19 oz.	Bismuthi subgallas	—	3 6	0
60 lb.	Confectio piperis	2 4	0 9	0
66 lb.	Ext. cascarae sag. liq.	2 7	0 10	0
15 oz.	Ext. cinchonae	—	2 6	0
52 oz.	Ext. colchici sicc.	—	8 3	1
21 oz.	Ext. fellis bovinum	—	3 5	0
22 oz.	Ext. fellis bovinum pulv.	—	3 6	0
52 oz.	Ext. gelsemii S.I (5)	—	—	1
84 lb.	Ext. glycyrrhizae	3 5	1 1	0
105 lb.	Ext. marrubii liq.	4 3	1 3	0
24 oz.	Ext. sarsae Jam. co.	—	3 10	0
8 oz.	Ext. scillae liq.	—	1 4	0
54 lb.	Linctus camph. co. B.P.C.	2 5	0 10	—
75 oz.	Ol. anethi ang.	—	—	1
115 oz.	Ol. anisi	—	16 8	2
48 dr.	Ol. lavand. ang.	—	—	7
32 lb.	Potassa sulphurata	1 2	0 5	—
134 oz.	Quinidin. sulphas	0 9	10 grain	—
44 oz.	Saifrol	—	6 7	0
78 lb.	Syr. cascarae arom. B.P.C.	4 1	1 2	0
120 lb.	Ung. capsici fort.	—	1 4	0

Keep Up the Good Work.—"It is essential that salvage of waste paper . . . should continue until further notice on the greatest possible scale in all areas." [From a report by the Joint Parliamentary Secretary to the Ministry of Supply on February 23.]

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

MEETING of the Council of the Pharmaceutical Society of Great Britain was held in London on March 1, Mr. W. S. Howells (President) in the chair.

Member

THE PRESIDENT welcomed to the Council, a new member, Mr. Macdonald Murray, Middlesbrough, who had been co-opted at the previous meeting. He said Mr. Murray had taken a keen and enthusiastic interest in the Society's affairs, and for many years had been a member of the local branch. Mr. Murray replied that he was fully conscious of the honour of being co-opted to the Council.

THE SECRETARY reported that thirty-seven persons had been registered as apprentices and students since the previous meeting. Names of fourteen members removed from the Register during previous years should be restored; all had paid the necessary fees. The Council agreed to restore the names to the Register.

Advertising of a Proprietary Medicine

THE SECRETARY said that the Council had instructed him to get in touch with the British Medical Association about the advertising of a "patent" medicine, following earlier communications on the subject to the Ministries of Health and Supply.

B.M.A. had replied that the only effective way of controlling products such as the one in question was by legislation, so far as they were concerned they left the matter there. MR. A. R. MELHUISE said if it was expedient to take the matter further in view of the non-committal letter from the B.M.A. THE PRESIDENT said it seemed to him that they had taken the matter as far as they could at present. It was agreed that the matter be deferred until a later occasion, when the whole position would be discussed. Confirmation was given of the appointment of six examiners for the purpose of the Manchester and Glasgow University degrees in pharmacy.

Education Committee

MR. G. R. KNOX MAWER, presenting the minutes of the Education Committee, said it was necessary to let members know that no certificate would be accepted by the Committee which did not contain a minimum standard in mathematics, as they felt that mathematics was one of the vital foundations of education, so far as pharmacy concerned. Members should realise it was essential to enter articles of pupillage,

as students were inclined to think that these were automatically included once they became registered. It was agreed to defer consideration of the draft syllabuses for physiology and biology for a month, so that every member of the committee might examine them carefully.

The secretary had been instructed to prepare a memorandum for consideration at the next meeting of the Committee. In discussion, the view was expressed that the position of pharmacists and students should be kept in mind, and that, while post-war concessions should be made, the errors after the last war should not be repeated. The minutes of the Education Committee were then adopted.

Benevolent Fund

MR. J. F. McNEAL moved adoption of the minutes of the Benevolent Fund Committee, and reported that £53 had been received from the West Ham and Eastern District Association of Pharmacists (proceeds of a dance), and £20 from old members of the former North Staffs Chemists' Association. Ten applications for assistance had been received and grants made in eight cases; one had been referred to the War Aid Committee, and the other deferred for one month. The report was adopted.

MR. F. C. WILSON, moving the minutes of the Organisation Committee, reported that, as the National Pharmaceutical Union wanted to call a meeting of Pharmaceutical Committees to discuss the White Paper, they thought it wise to defer fixing a date for a Branch Representatives' meeting and to call it as the situation developed. The minutes were approved.

Pharmacy in the Army

MR. APPLETON moved adoption of the minutes of the Public Services Committee, which stated that a pamphlet dealing with pharmacists in the Army was now available and would be sent to branches as soon as possible, together with advice as to the local activities to be undertaken in connexion with the matter. A report had been given on the position in regard to pharmaceutical personnel requirements for overseas relief, and an agreement had been reached between the Central Pharmaceutical War Committee and the British Red Cross Society, as the body responsible for providing medical personnel, whereby the latter would obtain pharmacists and dispensers through the Central Pharmaceutical War Committee.

(To be continued)

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CXLI MARCH 4, 1944 NO. 3343

The fact that goods made of raw materials are in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

The Case for the Pharmacist

Last week we published a complete summary of the Government's White Paper proposals for an all-embracing National Health Service (p. 233), and reviewed the scheme editorially (p. 229). This week we propose to consider ways and means which should ensure to the nation the full benefit of the pharmacist's dispensing services. The policy of "pharmacy for the pharmacist" must be the basis of negotiations with the Government. Whatever plan may be finally adopted by the Government and however it may be developed in the future, that clear-cut basic position of pharmacists in the health services must be resolutely insisted on at the onset and maintained throughout.

Negotiations with the Ministry

Responsibility for carrying out negotiations with the Ministry of Health will, we assume, rest with "The Big Three"—the National Pharmaceutical Union, the Pharmaceutical Society of Great Britain and the Company Chemists' Association. It is of the utmost importance that the case for pharmacy and the pharmacist should be presented to the Government with one voice. It is for these national bodies to

seek the opinion of their members and subsidiary and sectional organisations, and then together thrash out an agreed case. All other pharmacy organisations concerned, such as, for instance, the Pharmaceutical Standing Committee for Scotland, the Guild of Public Pharmacists, the National Association of Women Pharmacists and the National Joint Industrial Council for Retail Pharmacy, should be invited to co-operate and to give their support to the final proposals of the main negotiating joint body. This procedure will entail numerous meetings of members of each organisation and their branches, and many joint conferences of the three main bodies. The proposals finally adopted should be made known to pharmacists prior to the discussions with the Government, and any counter proposals made by Whitehall should be submitted to the rank and file for consideration before acceptance.

Dispensing Service

So far as dispensing is concerned, we believe the following terms would be acceptable to the majority of pharmacists.

1. On the assumption that the scheme in its initial stage and for some time to come will be operated on the lines of N.H.I., all dispensing under the proposed health services should continue in the hands of pharmacists.

2. There should be an insistence that all medicines and surgical appliances prescribed under the scheme by doctors in practice should be handled by pharmacists.

3. When, eventually, health centres are provided it is obviously the official view that pharmacists should continue to carry out the dispensing service at their own business premises just as they are doing at present under N.H.I. The following two quotations from the White Paper support this view:—

P. 37: "Supply of Drugs and Medical Appliances." The existing system under N.H.I. under which panels of chemists are formed in each area on lines closely corresponding to the panels of doctors, has worked on the whole with success.

P. 47: "General Method of Organising the Service." The maximum use of good

existing facilities and experience; no unnecessary uprooting of established services but the welding together of what is there already, adapting it and adding to it, and incorporating it in the larger organisation.

Ministerial utterances have repeatedly emphasised the point that "the convenience of the patient" is to be one of the main considerations to be taken into account in planning the new health service. Pharmacists' dispensing service in the past "has worked on the whole with success," and they have "good existing facilities and experience," and obviously twenty chemists' shops—dispensaries for the purpose of the health service—spread over a fair-sized town, would provide the maximum convenience to patients to obtain their medicines and appliances. Further, the patient would thus have "free choice" of pharmacist similar to that provided for free choice of doctor.

Health Centres' Dispensing

It may be suggested in some quarters that health centres in order to provide the means for medical treatment should include, as part of their make-up, facilities for dispensing medicines. At first sight this suggestion, no doubt, appears attractive, but close examination reveals that such a proposal possesses several serious disadvantages. It cannot be denied, of course, that in a well-regulated hospital dispensary, which is about the nearest equivalent to a health centre dispensary that can be imagined, the out-patients' needs may be adequately catered for, although there must at times be a considerable waiting period, or alternatively a further visit to collect the medicine. As the treatment of non-ambulant patients at health centres is apparently not envisaged, it is difficult to see how these sick people would obtain their medicines from health centres other than by means of a special messenger, which may be much more inconvenient than dealing with the local chemist, who is usually able to deliver the goods. The patient who requires a repeat prescription would much rather go to his local chemist, usually just round the corner, than make a special visit to a health centre, as in this case he does not require any medical

attention. From the above it would appear that a dispensary in a health centre, far from being an added convenience to the patient, would, in fact, be most inconvenient in many circumstances. It might be suggested that the provision of dispensaries in health centres would be convenient for the doctor. As the average prescriber never sees the actual medicine it is difficult to see how this argument could be maintained. There is, in our opinion, an overwhelming case for the retention of dispensing at local pharmacies where, of course, the very best facilities, if not already available, would have to be provided.

Payment for Dispensing Services

Payment for dispensing services under N.H.I. has been unsatisfactory throughout with the pharmacist heavily subsidising the scheme. The opportunity now arises to submit conclusive evidence that pharmacists as a body have been grossly and persistently underpaid. The value of the professional services has received but an exceedingly scant tangible recognition. In official quarters the key nature of the part pharmacists have played in the existing N.H.I. appears to have passed unrecognised and unfortunately the Government's White Paper lacks any indication of appreciation of the true value of the pharmacist service. With the object of providing an equitable system and a scale of payment more in line with the value of the facilities and service provided, an entirely new method of calculation such as the following might be considered. Payment to be based on four factors: (1) A capitation fee, (2) a dispensing fee, (3) cost of ingredients and (4) a retaining fee where a minimum number of prescriptions is not dispensed in an agreed period.

Whatever method is adopted for calculating payments for dispensing, it must be emphasised to the Government that the rate of payment made to pharmacists in the past is not acceptable as the basis for negotiations under the new scheme. It may, of course, be suggested that as the number of medicines to be dispensed under the comprehensive health services will be three or four times that at present dispensed under N.H.I., payment should be on a

her lower level than the current rate. An increase in the volume of dispensing will call for the employment of additional pharmacists, the extension of dispensaries and amenities involving alterations to shop premises, the purchase of much additional equipment, and stocks of drugs will have to be substantially increased in quantity and the range extended. The cost of providing suitable accommodation in the shop premises, usually located where high rents prevail, must be taken into account in assessing the value of the dispensing service provided.

Programme Summarised

Summarised, the main points of the pharmacist's case in the coming discussions with the Ministry of Health are: (1) pharmacy to speak with one united voice, (2) all dispensing under the proposed health services to be done by pharmacists at their business premises, (3) payment for dispensing to be on a scale that will give a reasonable return to the pharmacist for his professional services and allow for the provision of suitable accommodation, adequate equipment and a generally efficient service.

Design for World Trade

The part to be played by the United Kingdom in post-war international trade is the subject of a comprehensive report published by the Federation of British Industries. The Committee responsible for the report divides the main objectives of post-war policy into two parts: (1) the prompt relief of devastated countries and (2) the coming of a system of world trade aiming at the maximum degree of prosperity for all peoples. Before these conditions can be fulfilled, however, a transitional period will occur during which industry must be prepared to accept restrictions; but, the committee adds, controls should be relaxed and abandoned as soon as the need for them passes. In dealing with the problem of long-term economic policy, the committee has considered the proposals recently issued by the British Treasury and the United States Treasury, but holds the opinion that the former appears to conform more closely to world trade requirements. While supporting the general aim of the British proposals

for a Clearing Union, the committee insists that the successful working of any international guarantee and exchange scheme is bound up with the proper functioning of the machinery of world trade and commerce. No commitments on international exchange problems should be allowed to conflict with the policy of full employment. With regard to the future, it is realised that some degree of planning will be necessary, but Government action should, in the committee's view, be restricted to such general guidance as may avoid anti-social, wasteful and chaotic conditions: an International Economic Council is suggested, the nucleus of which might be found in the existing collaboration between the United Nations. Other points covered by the report include a plea for full employment and freedom from want over the widest possible area, partial regulation of imports, and Empire problems.

Mustard Gas in Fats

SOME criticism may be levelled at the official instructions for dealing with fatty food-stuffs contaminated with mustard gas, on the ground that the methods recommended involve a serious loss of fat. The subject is dealt with in the second edition of a publication "Food and its Protection against Poison Gas" issued by the Ministry of Food. In this it is suggested that fatty products which have been exposed to mustard gas vapour "should be trimmed to a depth of about half an inch, when they will be perfectly safe." Similarly, contamination with liquid mustard gas should be followed by trimming the fat to a depth of one inch and treating the remainder as if it had been exposed to vapour. This may be good enough for small quantities, but where bulk supplies are involved a less wasteful method may be preferable. In "Chemistry and Industry," February 5, p. 50, H. C. Lockwood describes such a method. His process comprises the steam-decomposition of the mustard gas in fats and removal of the decomposed products (chiefly thioglycol) by washing with hot water. Butter and margarine fats remaining after this treatment are stated to be satisfactory for manufacturing purposes, and lard seems unaffected.

VITAMIN B₂ COMPLEX

Summary of a Lecture given to the Nutrition Panel, Food Group of the Society of Chemical Industry, on February 9, by Mr. F. A. Robinson, M.Sc.Tech., F.I.C. (Glaxo Laboratories, Ltd)

THE existence of a heat-stable water-soluble factor distinct from the heat-labile water-soluble anti-neuritic factor was recognised in 1920. The heat-stable component was called vitamin B₂, and it apparently prevented not only pellagra in human beings, but also black-tongue in dogs, and a form of dermatitis in rats. In addition, it appeared to be a growth factor for rats, and a rat-growth method of assay was used to estimate the pellagra-preventive factor, until it was shown that riboflavin, isolated in 1933 and synthesised in 1934, was responsible for this effect, and did not cure pellagra. A chick-growth method was then introduced, but this also was found to be linked to some substance other than the pellagra-preventive factor, for in 1937 nicotinamide was isolated from liver extract and shown to cure both black-tongue in dogs and pellagra in human beings, but it did not give a response in the chick test. The factor which cured rat dermatitis was given the name "vitamin B₆." It was isolated in crystalline form in 1938, and re-named "pyridoxine." All these vitamins were shown to be highly specific in their action, few of their analogues having similar biological properties, and aneurine, riboflavin and nicotinamide were shown to be constituents of enzymes or co-enzymes, a fact which doubtless explained their specificity.

Pantothenic Acid

The chick factor, known also as "filtrate factor," proved to be more difficult to characterise, and its constitution was not proved until its identity with pantothenic acid had been established. Pantothenic acid was the name given to one of the constituents of bios, a "substance" postulated by Wildiers in 1901 to be essential for the growth of certain strains of yeast. Bios was subsequently shown to consist of some seven or eight components, which resembled closely those of the vitamin B complex and included aneurine, nicotinic acid and pyridoxine. Another of the bios factors, biotin, was later shown to be identical with vitamin H, a factor which prevented the dermatitis produced in rats by the feeding of raw egg white. The constitution of biotin was worked out recently, and its synthesis, though reported, has not yet been described. A few weeks ago du Vigneaud showed that desulphurised biotin could replace biotin as a growth factor for micro-organisms.

The close connexion between the growth factors required for micro-organisms and those required for animals resulted in the development of microbiological methods for estimating the vitamin B factors. This is done by measuring the increase in the rate of growth of suitable bacteria when the factor is added to an otherwise complete medium. As a result of this work, several new factors have been discovered, of which the best known is folic acid, originally obtained from spinach leaves. Folic acid or a substance closely resembling it, has since been prepared from liver, kidney and yeast, by an involved process of fractionation including adsorption on charcoal. Several other substances which act as growth stimulants for micro-organisms have been isolated in a similar manner. One, called vitamin B_c, has been obtained crystalline and its analysis corresponds with the formula $C_9H_{10}N_3O_3$. Two others have been named vitamin B₁₀ and vitamin B₁₁; the former is necessary for the growth of chicks and the latter for the proper feathering of chicks. Other factors essential for micro-organisms have been reported. The relationship of all these various factors to one another and to folic acid cannot be established until they have been purified. Folic acid itself has not yet been described, although it was recently reported to have been obtained in pure form. A chloroform-soluble fraction, which cannot be identical with folic acid, was recently obtained from liver in the author's laboratory. Also as a result of microbiological assays, a substance closely related to pyridoxine was discovered called "pseudo-pyridoxine"; this interferes with pyridoxine assays, and is apparently derived from pyridoxine. Its structure is not yet known.

Investigations on Sulphonamides

Further information about the vitamin B₂ complex has resulted from investigation on sulphonamides. A yeast extract which interfered with the antibacterial action of sulphanilamide was fractionated, and a substance obtained which closely resembled *p*-aminobenzoic acid. When tested *p*-aminobenzoic acid was also found to reverse the effect of sulphanilamide. On the basis of this result, a theory was propounded of the mechanism of sulphonamide activity which postulated that *p*-aminobenzoic acid was part of an enzyme system. The obser-

tion also resulted in the recognition that *p*-aminobenzoic acid was essential for the growth of several micro-organisms, and for the well-being of animals. Another substance which reversed the effect of sulphani-
 amide was adenine, which is also a growth factor for micro-organisms and a constituent of co-enzymes I and II. Both *p*-aminobenzoic acid and adenine should be regarded as components of the vitamin B₂ complex. Antagonists to other growth substances have since been prepared. The nature of the antagonism between "pantoyl taurine" and pantothenic acid suggests that the latter, like *p*-aminobenzoic acid, may be part of an enzyme system. Experiments with sulphaguanidine and succinyl sulphathiazole, which are not absorbed from the intestine, revealed that experimental animals treated with these drugs developed symptoms of vitamin B₂ deficiency, and this is shown to be due to sterilisation of the flora by the sulphonamides, thereby preventing elaboration of the vitamin B factors which the animals normally derive from intestinal bacteria. The findings also explained why it was possible to obtain a multiple vitamin deficiency through absence of only one factor; under such conditions the intestinal bacteria may not develop adequately, and the amounts of other factors produced by the bacteria will not be sub-optimal. The intestinal synthesis of vitamin B₂ factors may take place in man, but this has not yet been established.

Bacterial Synthesis

The substances which appear to play a part in bacterial synthesis include biotin, pantothenic acid, *p*-aminobenzoic acid, folic acid, aneurine and inositol. Inositol was the one of the bios factors to be characterised, and its absence also leads to the development of fatty livers, as does absence of choline, and both these factors probably ought to be included in the vitamin B₂ complex. Choline and, better still, methionine, prevents the development of fatty livers in animals, and it is now established that both act as methyl donors. If choline is to be included in the vitamin B₂ complex, it is doubtful if methionine can be excluded. Some of the vitamin B₂ factors are also concerned with anæmia. A factor present in liver, which may or may not be a member of the vitamin B₂ complex, cures pernicious anæmia, but, because clinical tests are the only means of estimating it, its purification is extremely difficult. In spite of this, a concentrate recently prepared in the author's laboratory gave an optimal reticu-

locyte and red-cell response at the low level of 5 mgm. The factor is also effective in nutritional and tropical macrocytic anæmia and sprue, but in these conditions it is probably not the only factor necessary.

Other Factors

Pyridoxine and xanthopterin are other factors that bring about a response in certain types of anæmia produced in animals, and recently pure folic acid was stated to cure leucopenia. The designation "vitamin B₂ complex" is largely an historical accident, but there is a close biological similarity between these factors, in spite of their diverse chemical structures. The only satisfactory explanation of the fact that so many of these substances are required both for micro-organisms and for animals is that they play an essential rôle in the fundamental metabolic changes common to all living cells. The most acceptable hypothesis at the present time is that they are prosthetic groups of enzymes and co-enzymes. It is already well established that some members of the vitamin B complex function as such, and there is at least presumptive evidence in two other instances. This close relationship should be accorded recognition, but as many of these substances are not vitamins in the accepted sense, a new word is indicated to describe them, and I suggest "biotics." The antithetic form "antibiotics" is already widely used in America to describe the antibacterial substances produced by micro-organisms. Practically all the substances covered in this discussion, including aneurine, which has quite wrongly been separated from the vitamin B₂ complex, satisfy the three criteria now suggested, namely, that they should stimulate metabolic processes, be specific, and be produced by micro-organisms.

PRESCRIPTION PROBLEM

THE solution to the problem set on February 19 (p. 201) is as follows:—

Mist. pot. iodid. . .	3 viii
Mist. expectorans ad . .	3 xvi
Sig. 4 hourly	

Booklet on Vitamins.—To enable pharmacists to keep in touch with the ever-increasing complexities of vitamins, a booklet, "The Vitamins," has been issued by the Pharmaceutical Press, 17 Bloomsbury Square, London, W.C.1, price 2s. 6d. The terminology, units of measurement, chemical, physical and physiological properties are concisely dealt with; human requirements are also given.

NOTE ON SOFT SOAP

At a recent meeting of the North British Branch of the Pharmaceutical Society, Mr. MACMORRAN read a paper he had prepared jointly with Mr. David Tait, M.P.S., on "Note on Sapo Mollis, Third Addendum to the British Pharmacopœia, 1932."

Alternative Materials

Owing to the scarcity of olive oil a new soap was introduced into the Third Addendum to the B.P. In the new monograph either potassium or sodium hydroxide is permissible, and any suitable vegetable oil or mixture of oils or their fatty acids may be used, with the exception of coconut or palm-kernel. If the soap is made by direct combination of the alkali and the fatty acids, it will contain no glycerin, which was always present in pre-war soft soap. Under war conditions it is most likely that the latter method will be used, the glycerin being extracted from the oil for use in industry and the remaining fatty acid being converted into soap. A comparison of the standards set in the B.P. 1932 and in the Third Addendum shows a few differences owing to the changed method of manufacture. The fatty acid content, however, remains unchanged at not less than 44 per cent. The most important alterations are as follows:—

	B.P., 1932	Third Addendum
Colour	Yellowish-white to green	Yellowish-white to green or brown.
Odour	Nearly odourless	Not mentioned.
Solidifying point of fatty acids		Not more than 31°.
Acid value of F.A.	195-205	Not more than 205.
Iodine value of F.A.	83-92	Not less than 83.

Examination of a Poor Sample

Some time ago a soft soap was received which had a poor appearance. It complied with all tests for purity. The chief figures obtained were:—

Fatty acids	44.96%
Iodine value of fatty acids	90.1
Acid value of fatty acids . .	192.7

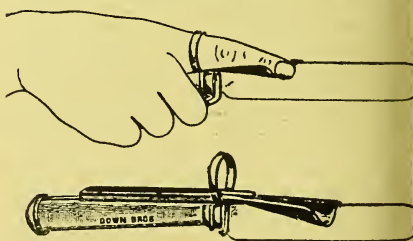
The solidifying point of the fatty acids was not obtained accurately, as solidification took place over a range of temperature, but there was no doubt about it being below the limit of 31°. The melting point, as determined by the method for soft paraffin in the B.P. Appendix IVA, was 27-28°.

It is usual for the solidifying point to be lower than the melting point. The sample was now used for the manufacture of liquid soap, B.P. It was found impossible to get the soap into complete solution; the insoluble portion floated on the surface and formed a pasty mass. Spirit of soap, B.P.C. was next tried, and the result was a soft mass of ointment-like consistence which was not pourable. Heat tended to liquefy the product, but on cooling a solid, more or less transparent jelly was formed. The above preparations were also made, using a later purchase of soft soap, and no difficulty was experienced in obtaining satisfactory results. Evidently, apart from solubility in alcohol, the first sample was satisfactory. The wide range of the source of the Third Addendum soap introduced the possibility of variation in the solubility in alcohol. It is suggested that an additional test would be of value whereby a soap not suitable for preparing highly concentrated alcoholic solutions would be rejected. A simple test which would meet the purpose is as follows:—

Two parts by weight of the soft soap should form a clear non-viscous solution at ordinary temperatures with one part by volume of alcohol (90 per cent.).

A TABLE-KNIFE HOLDER

A DESCRIPTION and illustration (reproduced below) of a neat device designed for Dr. Carlton Heal, Exeter, to assist those who cannot correctly hold an ordinary table-knife.



The little gadget (the illustration of which is self-explanatory) embodies a ring through which the index finger is slipped and the thumb is slipped through it to steady it. It is made by Dow Bros., Ltd., London, is handy and light, and is ingeniously designed to clip quickly on and off any small table-knife.

TRADE MARKS

om "The Trade Marks Journal," February 2)
 "ALLERGEN" and "STERJECT"; for pharma-
 ceutical preparations (5). By Duncan, Flock-
 hart & Co., 155 Farringdon Road, London,
 E.C.1. 625,856-57.
 "HASAN"; for pharmaceutical preparations
 for human use (5). By Silten, Ltd., 14 Weed-
 ington Road, London, N.W.5. 626,000.
 "L-LEX"; for menstruation appliances (5).
 By Lilia, Ltd., Neptune Street, Hull. 626,049
 (Associated).
 "FATONE"; for pharmaceutical substances
 and preparations (5). By Southon Labora-
 tories, Ltd., 88 Upper Richmond Road,
 London, S.W.15. 626,328.
 "SPAIN"; for all goods (5). By Quality
 Chemists, Ltd., Hove Park Villas, Hove,
 Sussex. 626,346.
 "ELOCAMP" and "TERPETHYLIN"; for medi-
 cal preparations for human use in treat-
 ment of chest and respiratory disorders (5).
 "FESOFOR"; for medicinal preparations for
 human use (5). By Damancy & Co., Ltd.,
 41 High Street, Harrow-on-the-Hill, Middle-
 sex. 626,366, -69, -68.
 "OMIDE"; for pharmaceutical substances
 and preparations (5). By Watford Chemical
 Co., Ltd., 11 Waterloo Place, London, S.W.1.
 626,406.
 "ELMAC"; for non-medicated toilet paper (16).
 By Velvet Crepe Paper Co., Ltd., Woodside
 End, Mount Pleasant, Alperston, Middlesex.
 624,703 (Associated).
 m "The Trade Marks Journal," February 9)
 "LIOL"; for chemical compounds being
 prays for use in horticulture (not being weed
 killers, insecticides or fungicides) (1). By
 Technical Products, Ltd., 29 Great St.
 Helens, London, E.C.3. 625,645.
 "OGALLIN"; for chemical substances, being
 sters, for use as anti-oxidants in pharma-
 ceutical and medical preparations, etc. (1).
 By Nipa Laboratories, Ltd., 17 Creechurch
 Lane, London, E.C.3. 625,903.
 "NMEX"; for non-medicated toilet prepara-
 tions, etc. (3). By British Products Sanmex
 Co., Ltd., 23 St. Andrew's Square, Glasgow,
 C.I. 624,461 (Associated).
 "SMEDIN"; for non-medicated toilet prepa-
 rations, etc. (3). By D.D.D. Co., Ltd., 3
 Fleet Lane, Ludgate Circus, London, E.C.4.
 625,625 (Associated).
 "CANO"; for soaps, perfumery and non-
 medicated toilet preparations (3). By Per-
 umeria Floralia Sociedad Anonima, Pases
 de Santa Maria de la Cabeza, Madrid, Spain.
 625,968.
 "NFORT"; for medicated emulsions being
 onic preparations for human use (5). By
 A. May, 14 Brougham Street, Edinburgh, 3.
 620,600 (Associated).
 "ROMIT"; for pharmaceutical preparations
 of compounds of gold for human use in treat-
 ment of asthma (5). By Clinical Products,
 Ltd., 2 The Green, Richmond, Surrey.
 623,648.

"ELDROX"; for medicinal herbs (5), and for
 dried herbs for food (29). By A. Elder Reed
 & Co., Ltd., 105 Battersea High Street,
 London, S.W.11. 624,623-26 (Associated).
 "GASOREX"; for insecticides (5). By Limax,
 Ltd., St. Albans Road, Hemel Hempstead,
 Herts. 625,273.
 "JEXO," "POLEXA" and "SPREECE"; for all
 goods (5). By Koray, Ltd., 56 Gamage
 Building, London, E.C.1. 625,372; 625,680;
 626,518.
 "FACTONE"; for pharmaceutical tonic tablets
 for internal human use (5). By B. H. J.
 Coker, 77 Eton Hall, London, N.W.3.
 625,685.
 "PARIDERMOSAN"; for pharmaceutical prepa-
 rations for use in treatment of the skin (5).
 By P.A.C. Photographic Accessories & Chem-
 icals, Ltd., 15 College Road, Epsom, Surrey.
 626,666.

C. & D. PRICE LIST OF MEDICINAL PROPRIETARIES

USERS of the List are asked to note the
 following additions and corrections since
 January 1:-

Item	Trade price per doz.	Purchase tax per doz.	Inclusive retail price each
	s. d.	s. d.	s. d.
Acramine red ..	32 0	5 4	4 5½
Antoin tablets ..	30 0	5 0	4 2
	63 0	10 6	8 9
Codasphen ..	13 6	2 3	1 10½
Ephregel jelly ..	13 0	2 2	1 9
Femilan tablets ..	10 0	1 8	1 5
	24 0	4 0	3 4
Formitrol pastilles	9 0	1 6	1 1½
Gluco-Fedrin with Phemeride ..	24 0	4 0	3 4
Luma compound	9 6	1 7	1 4
	24 0	4 0	3 4
	42 0	7 0	6 0
Meloden tablets ..	39 0	6 6	5 9
	72 0	12 0	10 0
Melosan liquid ..	27 0	4 6	3 9
tablets	27 0	4 6	3 9
Meloton tablets ..	24 0	4 3	3 4
	54 0	9 0	7 6
Multivite pellets..	36 0	Nil	4 6
Mycon tablets ..	28 0	Nil	
Normacol ..	13 6	2 3	1 8
	24 9	4 1½	3 11
	47 3	7 10½	5 11
Opus MacLean tablets, un- sweetened ..	5 0	0 10	9
Treutabs, 1-gm. ..	13 6	2 3	1 8
½-gm. ..	18 0	3 0	2 0
Verax vapour rub	9 0	1 6	1 3
cough cure	11 0	1 10	1 6

TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency.

28 Essex Street, W.C.2, March 1

DURING the month just closed, which is usually considered a fairly good one for business, nothing of interest has occurred that might be specially featured, although a fair amount of modest routine trade has been carried on. Few important price movements have occurred, but practically all commodities are firmly held. Lack of supplies is still the prime cause of restricted business, but no doubt some of the items in question will be coming along in due course. No important price changes have been notified in PHARMACEUTICAL CHEMICALS. Prices of PEPSIN and LITHIUM CARBONATE, however, have recently been advanced, and the new rates are given below.

Crude Drugs

Smallish quantities of these commodities have continued to find their way into the hands of consumers, but actual market business has been quiet and distinctly "patchy." The stock position of some items is far from satisfactory and in a few instances supplies have been completely cleared. Prices are generally unaltered, but one or two show slight changes. Small lots of CURAÇAO ALOES are offered, but no Cape is available; forward offers of the latter are difficult to obtain from origin. Moderate quantities of ARECA NUTS may be obtained on spot. Indian BELLADONNA ROOT is not plentiful, but leaves seem to be in fair supply. BENZOIN is selling slowly for pharmaceutical purposes. Zanzibar CLOVES are tending lower, current spot quotations being about twopence per lb. down on the last-mentioned figure. ERGOT is in poor supply at present. No change has occurred in the price of GUM ACACIA. Spot supplies of ORANGE PEEL are exhausted, and no replenishments appear to be coming forward. RHUBARB is dearer and in good demand. The only change in SEEDS concerns Indian FENNEL, which is quoted rather higher; the market continues dull, with no business of any volume passing. SQUILL is inclined to be easier. TRAGACANTH remains in fair request at unchanged rates.

Essential Oils

Reports from this section of the markets indicate that there has been little activity

in ESSENTIAL and EXPRESSED OILS during the week and values show practically no changes. ANISE (STAR) is quoted steady at the recent high figures mentioned in this article. English-distilled CLOVE unchanged. EUCALYPTUS continues good demand but supplies are restricted. PEPPERMINT is firmly held at the last mentioned price. There will be no change in the next eight-weekly period in the prices of refined oils and fats or in the four-weekly period in the prices of unrefined technical animal fats.

Exchange Rates on London

During February no alterations occurred in the foreign exchange rates on London. Bank of England fixed rates include: New York, 4s. 4d.; Montreal, 4s. 4d.; Dutch West Indies, 7.60 florins; Lisbon, 100 escudos; Stockholm, 16.90 kroner. The Spanish rate steady at 44 pesetas and the Chinese National dollar is unchanged at 3 $\frac{1}{2}$ d.

Pharmaceutical Chemicals

ACETANILIDE.—Crystals may be purchased at 2s. 5d. per lb., and powder at one penny per lb. extra.

ALLOBARBITONE.—Makers' quotations steady at 6os. per lb.

AMPHETAMINE.—No change in makers' prices at about 15os. per lb.

BORIC ACID.—Makers' quotations are unchanged; B.P. granulated, £60 15s. per ton; crystal, £61 15s.; powder, £62 15s. Packed one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots and upwards. Commercial grades, £8 per ton less.

CREAM OF TARTAR.—British makers' quotations are steady at 262s. per cwt., less 2 $\frac{1}{2}$ per cent. discount.

ETHERS (METHYLATED).—Makers' prices per lb., in Winchester quarts, are as follows: 0.71, 1s. 5 $\frac{1}{2}$ d.; 0.735, 1s. 5 $\frac{1}{2}$ d.; 0.730, 1s. 5 $\frac{1}{2}$ d.; 0.725, 1s. 7 $\frac{1}{2}$ d.; 0.725 (triply rectified), 2s. 0 $\frac{1}{2}$ d.; 0.720, 1s. 8 $\frac{1}{2}$ d.; 0.717, 2s. 2 $\frac{1}{2}$ d.; 0.720, B.P. (not for anaesthesia), 1s. 10d.

ETHYLMORPHINE.—Current prices per oz. in small quantities are as follows: ALKALOID. $\frac{1}{2}$ oz., 51s.; 1 oz., 48s. 6d.; 2 oz., 47s.; 3 oz., 46s. 3d.; 4 oz., 46s. HYDROCHLORIDE.— $\frac{1}{2}$ oz., 43s.; 1 oz., 40s. 6d.; 2 oz., 39s.; 3 oz., 38s. 3d.; 4 oz., 38s.

GALLIC ACID.—Quoted at from 10s. 6d. 11s. per lb., according to quantity.

GLUCOSE.—Powdered monohydrate for the home trade, in lots of 28 lb.—1 cwt., is quoted

lb. as follows (containers in brackets):
1. (28-lb.); 10½d. (14-lb.); 11d. (7-lb.);
(4-lb.); 1s. 0½d. (2-lb.); 1s. 1½d. (1-lb.).

IODINE PREPARATIONS.—Prices per lb. for the home market are as follows: **POTASSIUM IODIDE**, B.P.—112 lb., 9s.; 28 lb., 9s. 6d.; 14 lb., 10s.; 7 lb., 11s. 6d.; 4 lb., 12s.; smaller quantities, 12s. 6d. **SODIUM IODIDE**, B.P.—112 lb., 9s. 11d.; 14 lb., 10s. 5d.; 7 lb., 12s. 2d.; 4 lb., 12s. 10d.; smaller quantities, 13s. 8d. **IODOFORM**, B.P.—28 lb., 12s. 10d.; 14 lb., 13s. 4d.; 7 lb., 15s. 6d.; 4 lb., 16s. 4d.; smaller quantities, 17s. 2d. **IODOFORM CRYSTALS**,—per lb. above powder prices. **IODINE SUBLIMED**, B.P.—112 lb., 10s. 4d.; 28 lb., 10s. 10d.; 14 lb., 11s. 4d.; 7 lb., 13s. 1d.; 4 lb., 13s. 9d.; smaller quantities, 14s. 6d.

LITHIUM CARBONATE.—Prices have been advanced to 9s. per lb. for 1-cwt. lots and to 9d. per lb. for 2-cwt. lots. Delivered free in the United Kingdom.

PEPSIN.—Prices have advanced recently, current rates per lb. being as follows: B.P. (2,500), 1 cwt., 18s. 6d.; 28 lb., 19s. 9d.; 14 lb., 20s. 3d.; 7 lb., 21s.; U.S.P. (1-3,000), 1 cwt., 22s. 3d.; 28 lb., 23s. 6d.; 14 lb., 24s.; 7 lb., 24s. 9d. Carriage paid in the United Kingdom, packing extra. All sales are for pharmaceutical purposes only.

TANNIC ACID (levis ex ether, B.P.).—Quotations are steady at 10s. 6d. to 11s. per lb., according to quantity.

Crude Drugs

AGAR.—Price is controlled at 30s. per lb. A few small sales are reported at this figure.

ALOES.—There are no supplies of Cape on the market, and forward quotations are difficult to obtain. Small supplies of Curaçao are reported on spot at from 400s. to 425s. per cwt.

ANTIMONY.—English minimum 99 per cent. metal is quoted at £120 per ton, delivered; 95 per cent. crude, for the home trade, £100 per ton, delivered.

ARECA NUTS.—Spot supplies are available from dealers at 115s. per cwt., ex store.

BALSAMS.—*Peru* is quoted at 8s. 3d. per lb., *Canada* at 10s. 6d. *Tolu* and *Copaiba* are obtainable at present.

BELLADONNA.—Some Indian leaves testing 10 per cent. alkaloids are offered on spot at 3d. per lb.; high-testing Indian root is not plentiful but small lots of 0.49 per cent. may be obtained at 500s. per cwt., and some 0.36 per cent. at 330s.

BENZOIN.—Sumatra block may be had at 15s. per cwt., for pharmaceutical use.

CAMPHOR.—Approved users can still obtain limited supplies of Chinese crude at 10s. per lb., 1 B.P. at 11s. 6d.

CARDAMOMS.—Spot, Aleppy greens, 5s. 6d. 1 lb.; Aleppy seed, 6s. 6d.; split seed, 5s. 6d. The business passing,

CHAULMOOGRA.—*Hydnocarpus*, spot, tins in cases, 1s. 6d. per lb.

CHILLIES.—Mombasa continues to be quoted on spot at 115s. per cwt., sellers; no other varieties are offered.

CLOVES.—Spot quotations for Zanzibar are lower at 1s. 3d. per lb.; second-quality, to arrive, 10d. per lb., c.i.f., sellers.

COCHINEAL.—Blacks, for medicinal use only, 4s. 6d. per lb., on spot.

COCOA BUTTER.—No change in the maximum official price of 1s. 5½d. per lb., ex factory or warehouse. Sales can be made at other prices under Ministry of Food licence.

COCONUT (DESICCATED).—The maximum price, as fixed by a Ministry of Food Order, is 49s. per cwt.

COLOCYNTH.—Fine white pulp may be purchased on spot at 3s. to 3s. 3d. per lb., according to holder.

DIGITALIS LEAVES.—Price of Portuguese leaves is steady on spot at 135s. per cwt.; English-grown leaves, 2s. 6d. per lb.

DRAGON'S BLOOD.—Dull Zanzibar drop is available at £21 per cwt., but no other varieties are offered.

ERGOT.—Not much available at present. Purchasers would be required to pay 5s. 9d. to 6s. per lb. for small lots on spot.

GUM ACACIA.—Kordofan cleaned sorts steady on spot at 82s. 6d. per cwt.; bleached, shipment, 140s., c.i.f.; Talha, cleaned, 50s. per cwt., landed.

HENBANE.—Russian leaf is quoted on spot at 3s. 6d. per lb. Indian low-testing material may be obtained at 1s. 3d. per lb.

IPECACUANHA.—No spot supplies available. Current prices of EXT. IPECAC. LIQ. are as follows: **Winchesters**, B.P., 1932, under three, 32s. 6d. per lb.; three and under six, 32s.; six and under twelve, 31s. 6d.; twelve and over, 31s.; B.P., 1914, under three, 30s. 6d.; three and under six, 30s.; six and under twelve, 29s. 6d.; twelve and over, 29s. per lb.; all prices quoted are on a net basis.

JALAP.—In short supply. Some Brazilian root containing 13 per cent. resin may be obtained at from 175s. to 200s. per cwt., according to seller.

KAMALA.—Material testing approximately 5 per cent. would be worth 1s. 9d. per lb.

LIGUORICE ROOT.—Russian material may be obtained by approved buyers for pharmaceutical purposes at 75s. per cwt.; cut Russian root, for non-pharmaceutical use, 96s. 6d. per cwt.; single-peeled Syrian may be had at 110s. per cwt., subject to D.M.S. approval.

MENTHOL.—Position as outlined last week (p. 243) is about unchanged.

MERCURY.—Official spot quotations range from £68 10s. to £69 15s. per flask, according to conditions and quantity, with higher rates for smaller lots and redistilled grades.

MYRRH.—The price required for Aden sorts on spot would be £20 per cwt.

NUTMEGS.—West Indian, spot, wormy and broken, 1s. 4½d., per lb.; sound unassorted, 1s. 7½d.

NUX VOMICA.—Shipment price of Cochin remains at 32s. 6d. per cwt., c.i.f., buyers' licence. Spot supplies are depleted.

ORANGE PEEL.—Spot supplies appear to be exhausted.

PEPPERS.—Maximum prices of whole, not picked over or cleaned, on sale to processors, are: 1s. 4d. per lb. for white, and 1s. per lb. for black, both duty paid.

PIMENTO.—Sellers on spot at 1s. 8d. per lb.; shipment prices are not quoted.

QUILLAIA BARK.—Crushed or cut bark, spot, 90s. per cwt.; natural, 70s.; afloat, 60s., c.i.f.

RHUBARB.—Demand is good and higher prices are quoted. Rough-round, spot, 8s. 6d. per lb.; flat, high-dried, rough-coat, 9s.

SEEDS.—The only change this week concerns Indian FENNEL, which is quoted rather dearer. Business is quiet. Current rates are: CORIANDER.—Indian, 80s. per cwt. CUMIN.—Maltese, spot, 110s.; Indian, 105s. DILL.—160s., ex wharf. FENNEL.—Offered at 85s. FENUGREEK.—May be had at 80s. MUSTARD.—Controlled prices are unchanged.

SENA.—Alexandrian medium pods are at 4s. per lb.; Tinnevely, manufacturing grade, 6d. to 7½d.; hand-picked, 10d. to 1s. 6d.; broken Alexandrian leaves, 1s. 3d. to 1s. 4d.; siftings, 1s. 2d.; Tinnevely, No. 1, 9d. to 10½d.; No. 2, 7d. to 7½d.; No. 3, 5½d. to 6d.

SQUILL.—Portuguese may be had on spot at 75s. per cwt.; Indian, 70s.

STRAMONIUM.—Parcels arriving are quoted at 65s. per cwt., c.i.f. Spot, 95s.

TRAGACANTH.—In fair request at unchanged prices. The principal medium grades are quoted as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £100; No. 4, white, £85; pale leaf, £60; amber leaf, £50; dark amber, £40; brown leaf, £30; red-and-brown leaf, £25; red leaf, from £20; hoggy, from £12 to £15.

TURMERIC.—Sound Madras finger, spot, 52s. 6d. per cwt., London; 50s., Liverpool; 47s. 6d., Glasgow.

WAXES.—BEES'.—Supplies may be obtained only through members of the Association of Merchant Distributors of Beeswax; official prices are as follows: Crude, 260s. to 290s. per cwt.; refined, 315s. to 355s.; bleached, 340s. to 370s.; Calcutta crude, 250s. to 270s.; Calcutta bleached, 325s. to 335s. CARNAUBA.—Fatty grey, 420s. per cwt., ex store, in minimum one-bag lots; shipment, 385s., c.i.f.; Primeira, 535s. per cwt., ex store, with stocks scarce; medium yellow, 527s. 6d. per cwt.; chalky grey, 405s. per cwt.; shipment, 375s., c.i.f. (c.i.f. prices include ½ per cent. W.R.I.). CANDELLA.—As noted recently, prices have been reduced as follows: Under 1 ton, 235s. per cwt.; 1-5 tons, 232s. 6d.; 5 tons and over, 230s., ex store; forward, 225s. per cwt., c.i.f.

Essential and Expressed Oils

ANISE (STAR).—Any available small supplies would be worth upwards of 110s. per lb.

CAJUPUT.—Supplies are restricted; spot, available, about 15s. per lb.

CLOVE.—No change in English distiller prices for genuine B.P. oil at 11s. 6d. to 12 per lb., according to quantity.

CINNAMON.—Any available spot supplies of leaf oil would fetch approximately 15s. 6d. per lb.

COCONUT.—Bulk supplies of refined deodorised are officially quoted at £49 per ton, and refined hardened deodorised at £53, both naked ex works.

EUCALYPTUS.—In good demand but supplies are restricted. Oil containing 70 to 75 per cent. cineole would be worth approximately 6s. to 6s. 3d. per lb.

GERANIUM.—Genuine North African oil on spot, from 85s. to 90s. per lb., according to quantity.

GROUNDNUT.—Controlled prices for bulk supplies are as follows: Refined deodorised, £5 per ton; refined hardened deodorised, to 40¢/lb.; refined hardened deodorised, to 50¢ to 52¢/lb.; all naked ex works.

LINSEED.—Bulk supplies are controlled at £6 per ton, naked ex works.

NUTMEG.—English distillers quote 40s. per lb., with lower prices for quantities.

PEPPERMINT.—About 150s. per lb. is mentioned for odd cases of Chinese oil.

PETITGRAIN.—Any available spot supplies would be worth around 25s. per lb.

RAPESEED.—Bulk supplies are officially quoted at £70 per ton, naked ex works.

ROSEMARY.—Spot, if available, approximately 16s. per lb.

Controlled Essential Oils.—The following are the current schedule of prices for controlled essential oils. Prices are per lb., for oils delivered to consumer in original packages.

Lemon, cold-pressed	18s. 10½d.
Lemon, distilled	14s. 4d.
Peppermint	36s. 4d.
Grapefruit	18s. 2d. (incl. duty)
Sassafras	11s. 3½d. (plus 1s. duty)
Caraway	20s. 4½d. (plus 1s. 10d. duty)
Wormseed	15s. (plus purchase tax where payable)
Cedarwood	3s. 1d. (plus 3d. duty)
Nutmeg	22s. 3d. (plus 2s. duty)
Fennel	11s. 3½d. (plus 1s. duty)
Coriander, Russian	127s. (plus 11s. 6d. duty)
Geranium, Bourbon	25s.
(Ministry oil)	24s. 6d.
Orange oil, Jamaica	23s. 6d.
Vetivert	37s. 7d. (plus 3s. 5d. duty)

MISCELLANEOUS INQUIRIES

Burow's Solution.—*B. U.*—Burow's solution is a solution of aluminium acetate; Burow's mouth-wash and gargle is the same solution, with peppermint added.

Dyeing Fern Fronds.—*H. S. K.*—The best way to dye the fern fronds would be to soak them in methylated spirit overnight and then immerse in a solution of cochineal, amaranth fuchsin or methyl violet. Any one of these should give a colour approximating that of the sample you send.

Supplies of Honey.—*H. B.*—Unless you have purchased honey previously, you may be unable to obtain any now. If you have been a purchaser of honey in the past, you could write to the Honey Importers and Traders' Association, 98 Cannon Street, London, E.C.4.

Lime Deposits in Catheters.—*L. G. F.*—Weak acid; e.g. acetic (5 per cent.), is satisfactory for removing lime deposits in the lumen of gum-elastic catheters. The catheters are afterwards well washed with free or four changes of water to remove the last traces of dissolved calcium salts and free acid.

Hydrochlorides in Gastric Disturbances.—*S.*—Several preparations of the type you mention are on the market. None, so far as I know, is in a granular form, but one proprietary product is supplied as a powder. It consists of betaine and glutamine hydrochlorides, and is used for the treatment of gastric disturbances due to insufficiency of hydrochloric acid.

Toothache Drops.—*J. O. Y.*—The following formulas for toothache drops are taken from "Pharmaceutical Formulas," Vol. I:—

Ol. caryophylli	3ij
Menthol.	3iiss
Aceti aromatici	m.xl
Æther. meth. ad	3j
2	
Tr. pyrethri	} aa. partes æquales
Tr. capsici	
Tr. myrrhæ	
Spt. camphoræ	
3	
Chloroformi	3j
Camphoræ	3j
Mastic.	3ss
Ætheris	3ss
Tr. lavand. co.	3j

Chimney Cleaning Powders.—*W. H. H.*—Preparations sold under the name of

"Chimney-cleaning Powders" are usually a mixture of common salt, two parts, with sulphur, one part, sometimes coloured with Armenian bole or aniline blue. The mixture is thrown on a bright fire, and the sulphurous and hydrochloric vapours help to make chimneys a trifle cleaner. A mixture of zinc dust (50 per cent.), sodium chloride (45 per cent.) and sawdust (5 per cent.) is also sometimes encountered.

Sea Bath Salt.—*W. B. C.*—As a basis for a sea bath salt speciality you could try the following formula:—

Potassium iodide	5 gr.
Potassium bromide	15 gr.
Magnesium sulphate	2 oz.
Sodium sulphate	1 oz.
Sodium chloride	12 oz.

It may be tinted green with an alcoholic solution of naphthol green (1 per cent.) and perfumed with pine-needle oil.

Milk Preparations.—*A. C. F.*—Malted milk preparations are usually made from fresh milk and the mash of ground barley-malt by a process of mixing and dehydration under strict control. We do not know of a simple formula, but the following approximate analysis of a so-called malted milk powder may suggest a mixture suitable for your own use:—

Milk powder	60 per cent.
Dried malt extract	15 per cent.
Wheat flour	25 per cent.

Chocolate-and-milk is prepared by adding pre-digested wheat, sugar and chocolate to dried whole milk. The proportion of the ingredients is varied according to taste.

Sale of Linseed Products.—*J. J. J.*—The Ministry of Food points out that while there are no legal restrictions on the retail sale of linseed or linseed oil (see *C. & D.*, January 29, p. 131), wholesale transactions are strictly controlled. Neither commodity may be sold by wholesale except under the authority of a licence granted by the Minister, and such licences have been granted only to firms engaged in the trade before the war. Both items are imported, like other oilseeds and vegetable oils, by the Ministry, and private traders can obtain supplies only by means of allocations made to wholesalers; where supplies are made available for re-sale to chemists it is on the clear understanding that such supplies are restricted to pharmaceutical uses. The Ministry also keeps a close watch on wholesale and retail prices of linseed and linseed products.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Pharmacy at the Polls

SIR,—The above article in last week's issue (p. 220) brings to the surface once again that peculiar and mischievous trait in pharmaceutical politics—suspicion. It has defeated all efforts in the past to secure real unity among the various sections of the profession, and it has been responsible for the ship going aground so often. Your contributor states, in effect, that, if pharmacists employed by multiple concerns are elected to the Council the multiple interest will thereby gain undue influence in the affairs of the Society. These, and, I am sure, all the other candidates, whatever their connexion, are standing, first and last, as pharmacists, and undoubtedly if elected they will be free agents in Council affairs.

Yours faithfully,

INDIVIDUALIST.

Council Election

SIR,—In the Pharmaceutical Council election Mr. Harry Steinman is standing with the support of the Council of the Manchester Pharmaceutical Association and the Executives of the branches of the Society, the National Pharmaceutical Union and the Junior Branch of the Association. He has also the warm support of the retiring member of Council (Mr. J. H. Franklin). Mr. Steinman is a young pharmacist who has done an enormous amount of work in local pharmaceutical organisations. As a member of the N.P.U. Executive he has gained a wide knowledge of the questions that affect pharmacy in all parts of the country. In Manchester we have a high opinion of his character and capabilities, and the earnestness of his desire to improve the status of pharmacy. He has a clear conception of the place pharmacy must occupy in the coming National Health Service. He can be depended upon to fight strenuously for adequate recognition, with remuneration on a satisfactory basis for the pharmaceutical service. His statement of policy has already appeared in the pharmaceutical Press. May I commend him for the consideration and support of members throughout the country.

Yours faithfully,

T. MILLER, Secretary,

Hale, Ches. Manchester Pharmaceutical Association.

Dispensing Fees

SIR,—In view of the topicality of the subject of payment of pharmacists, the following suggested pricings, based on approximate time taken, may be of interest. A rate per hour of 7s. 6d., inclusive of salaries and other overheads, is assumed, and for any D.D.A. script an increment of sixpence per prescription is recommended.

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- | | | | |
|-------------------------------|----|----|----|
| (2) Mist. acid acetylsalicyl. | .. | .. | 3v |
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- | | | | |
|-----------------------------|----|----|-------|
| (3) Mist. morph. et ipecac. | .. | .. | 3viii |
|-----------------------------|----|----|-------|

Time: 5 min. Fee: 9d. or 1s.

- | | | | |
|---------------|----|----|-------|
| (4) Sod. cit. | .. | .. | gr. x |
| Bismuth carb. | .. | .. | gr. v |
| Sod. bic. | .. | .. | gr. x |

Ft. pulv. Mitte 24.

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Yours faithfully,

Bath.

E. C. HASKINS.

COMING EVENTS

Tuesday, March 7

MANCHESTER PHARMACEUTICAL ASSOCIATION and BRANCH, Onward Hall, 207 Deansgate, Manchester, at 7.45 p.m. Addresses by Messrs. W. E. Phillipson and Harry Steinman (Council election candidates).

Wednesday, March 8

NOTTINGHAM BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Elite Café, at 6.30 p.m. Miss Islip on "Policy in Pharmacy."

BATH BRANCH, PHARMACEUTICAL SOCIETY, Royal Baths, Stall Street, at 7.30 p.m. Mr. D. G. Ardley on "The Chemotherapy of Bacterial Infections."

Thursday, March 9

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Square, London, W.C.1, at 7 p.m. Mr. I. C. P. Smith, B.Sc., A.I.C., on "Sintered Glassware: Its Manufacture and Uses."

LEEDS BRANCHES, NATIONAL PHARMACEUTICAL UNION and ASSOCIATION OF PHARMACEUTICAL EMPLOYEES, Metropole Hotel, Leeds, at 7.15 p.m. Messrs. T. Heseltine (chairman, N.P.U.) and M. Jackson (secretary, Leeds branch, A.P.E.) on "The Joint Industrial Council."

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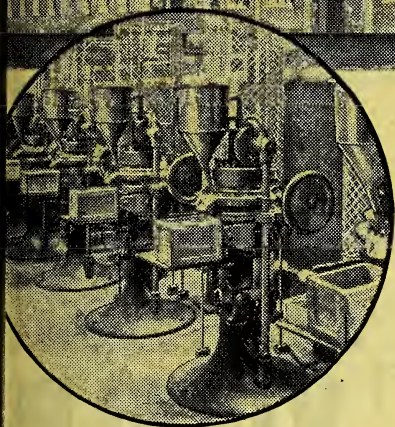
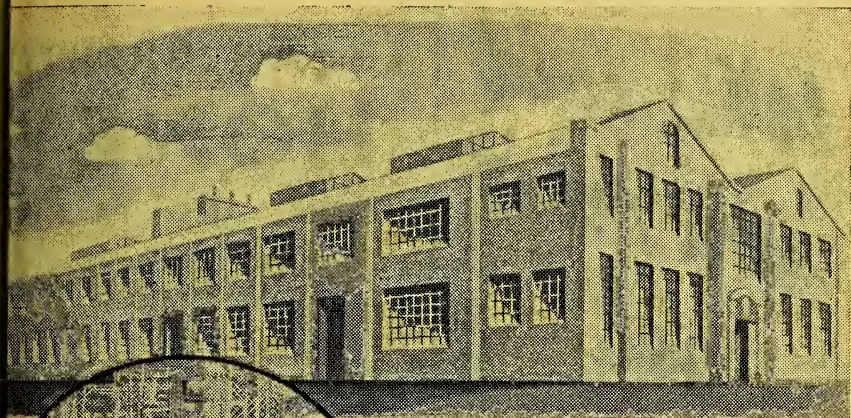
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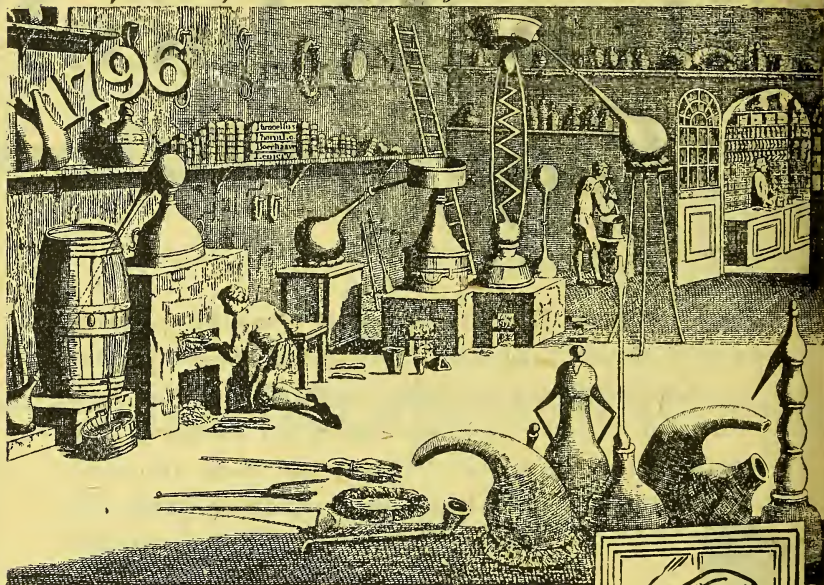
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A COMMERCIAL Manager is required by an established London House to plan, control, and co-ordinate the activities of Departmental Sales Managers and also the Marketing, Publicity, Warehouse and Despatch Departments. Essential qualifications are: Age 35-45; Sales Management experience in control of outside staff of not less than forty representatives; present remuneration must be in excess of four figures; knowledge of Warehouse and Despatch. Desirable but not necessarily essential qualifications are: Knowledge of Export Sales Management; experience in marketing and selling Ethical Products to chemists; recognised academic or other qualifications in Pharmaceutical Chemistry, etc. Reply in confidence, Box 132, White's, Ltd., 72 Fleet Street, E.C.4.

ANALYTICAL CHEMIST with good qualifications and experience will find interesting scope for work with well-known Manufacturing Chemists engaged largely on Government Contracts. Essential qualifications for this progressive position are: (a) sound knowledge of modern analytical methods applied to pharmaceutical practice, and (b) Ph.C. F.I.C., or equivalent degree. Commencing salary £400 to £500 per annum according to experience. Applicants, who should be over thirty-five or ineligible for Military Service, should give details of qualifications, experience and when disengaged. CDB 266, London Office of this Paper.

A PROGRESSIVE opening occurs with National Advertisers of Food Products for gentlemen with sound connexion amongst Multiple Store, large Wholesalers and Retailer buyers. Commensurate salary, commission and expenses. London Areas, Surrey and Sussex Areas. Write in confidence to Sales Director, Box W. 50359, Haddon's, Salisbury Square, Fleet Street, London, E.C.4.

CHEMIST wanted with good manufacturing experience for South-east England. Qualification necessary but knowledge of tablet-making optional. Good and progressive position for man able to take charge and acting on own initiative. To be exempt from national service regulations. Salary with full particulars of experience, salary red and when free, to 'M', Box W.50420, London, Salisbury Square, London, E.C.4.

EXPERIENCED full-time Representatives required to introduce nationally-advertised dietary lines to Chemists, London and provinces. Connexion amongst Chemists essential. Salary, commission, expenses. Send fullest particulars in confidence, stating territories covered. Box W.50411, London, Salisbury Square, London, E.C.4.

EXPERIENCED Forewoman wanted for Packed Goods Department of Manufacturing Chemists. J. C. R. Harker, Stagg & Morgan, Ltd., Emmott T., Mile End, London, E.1.

MANUFACTURING Chemists require Representative to call on Doctors in the North-eastern districts. Payment by salary, commission and expenses. Applicants should state particulars of experience, if any, when available, and salary required. 560/984, London Office of this Paper.

WELL-ESTABLISHED Firm, of world-wide repute, with Factory in a Home County 18 miles from London, manufacture Perfumery, Cosmetic and Toilet products, etc., require a practical Man. Must be experienced in the production and packing of large class products; (exempt); permanency. Reference will be treated as strictly confidential. 262, London Office of this Paper.

Tablet Maker required, exempt military service. Give full particulars as to age, experience and salary required. Secretary, H. & T. Kirby & Co., 11, Willesden Green, London, N.W. 2.

POSITION VACANT. London manufacturing chemists require Under-Manager or Manageress, able to take charge of packing and ampouling operations. Experience in preparation of sterile ampoules and ampouling an advantage. Preference to qualified applicant. Good post-war prospects. Full details and salary required to 560/987, London Office of this Paper.

PROGRESSIVE Organisation requires Qualified Chemist for Pharmacy Department. Either sex, permanent national service. Good salary and prospects, 563, London Office of this Paper.

REPRESENTATIVES (several) required by nationally advertised goods manufacturers, specialising in Pharmaceutical products, foods, Gentlemen having chemist connexion in North-East, Durham area, Yorkshire, Midlands, Lancashire, are invited to write in confidence. J. Chemist, Box W.50353, Haddon's, Salisbury Square, Fleet Street, London, E.C.4.

REPRESENTATIVES required to complete Sales Staff of established nationally known Cosmetic Firm. Salary basis for duration. Background of business lines, knowledge of ground and chemist connexion essential. Write full details, experience, salary handled, age, and salary required. 558/937, London Office of this Paper.

REPRESENTATIVES required for London and Home Counties and other districts for Briccas Chemicals, Gold Seal Label Packets, etc. Salary commission. Permanency. Send details of commission, territory, copies of references to Briccas, 4 Cavendish Place, London, W.1.

TRAVELLERS required by Company manufacturing products of vital national importance, connections amongst the Retail and Wholesale Chemists, Grocers, Ironmongers, Oil, Shops, and seedsmen, Co-ops. Appointments for each day in U.K. National Advertising. Substantial commission weekly. State territory covered. Write to G.A.C., 44 Chancery Lane, W.C.2.

TABLET MAKER required for S.E. London Manufacturing Chemists, exempt military service. Experienced man preferred but suitable trainee considered. Permanent position for suitable applicant. Write full particulars. 560/985, London Office of this Paper.

TABLET MAKER. Experienced tablet maker wanted for priority work. Commencing salary offered £7 10s to £8 per week according to experience. Good post-war prospects for man with ability. Works situated in North-West England. CDB/264, London Office of this Paper.

COLONIAL

BRITISH Colony. Old-established British firm of Chemists require qualified Pharmacist, age between 30-40 years, for permanent position in their Overseas organisation. Authorities prepared to arrange sailing facilities to selected applicant subject to agreement being reached with Ministry of Labour and National Service for the issue of necessary exit permit. Salary commencing £350 per annum with increments per tour 20 months to maximum £700 per annum. Four months' leave on full pay, personal allowance at rate of £30 per annum whilst overseas. Contributory Pension Scheme in operation, bungalow accommodation provided, medical expenses paid and first-class passage outward and homeward. Applications in writing with copies testimonials and recent photograph to West African Drug Co., Ltd., 2 Kingsmead Road South, Oxted, Birkenhead.

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DISPENSER (female) required for the Northampton County Mental Hospital at Berrywood, nr. Northampton (1,100 beds). Applications stating age, experience, qualification and salary required to be sent to the Medical Superintendent.

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ASSISTANT PHARMACIST (qualified) required. Hospital experience preferred. Salary, £225, rising by annual increments of £12 10s. to £300 per annum. The number of years of hospital experience will determine the commencing salary. Apply,

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The Hospital, Secretary.
Ipswich.

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Clapham Common, S.W.4

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ST. GEORGE'S HOSPITAL

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Assistant Pharmacist wanted. Junior, for duration. Salary B.H.A. Scale; experience duly considered. Apply to The Pharmacist.

THE Hertfordshire County Council require immediately an Assistant Pharmacist. Applicants must be qualified, over military age or otherwise exempt from Military Service. Salary £250, rising by annual increments of £10 to £300, plus a Special Grant which at the moment is 19s. per week. Minimum number of hours 4½ per week (exclusive of meal times). Applications to the Medical Superintendent, Haymeads, Bishop's Stortford.

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ALUMINIUM Hydroxide, 1 cwt., part or whole for Sale, carriage paid. Moore Medicinal Products, Ltd., Aberdeen.

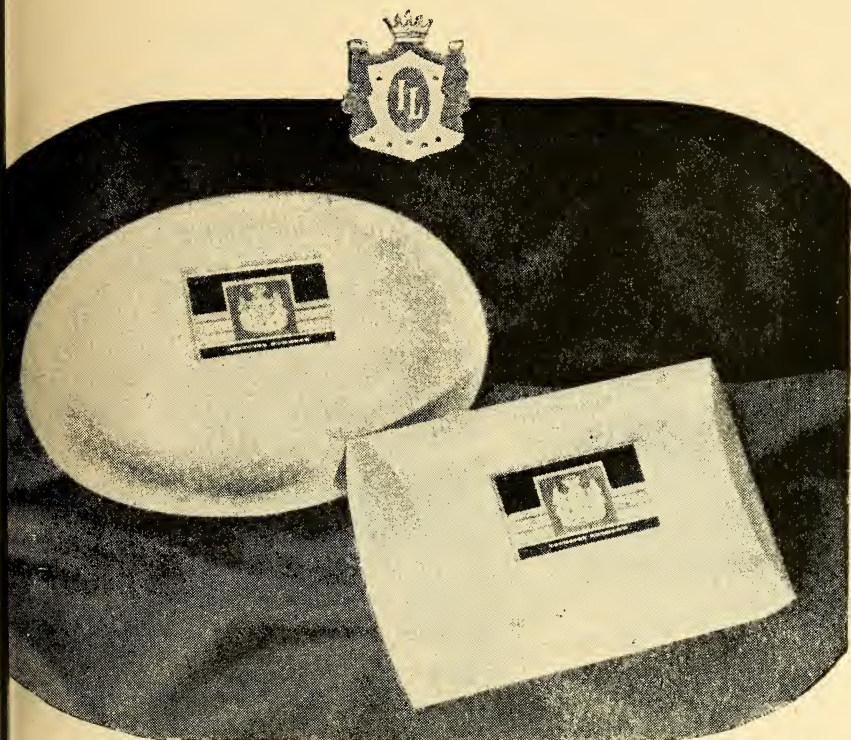
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COMPLETE Fittings of up-to-date Chemist Retail Shop for Sale, including Mahogany Counter, Wall Fittings, Weighing Machines, Mirrors, etc. Reasonable price accepted. Full particulars and from Healey & Baker, Auctioneers and Surveyors, 29 St. George Street, Hanover Square.

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